Off Confidential: 89.06.23 >istrict Geologist, Kamloops ASSESSMENT REPORT 17526 MINING DIVISION: Vernon Silver Lump -PROPERTY: 118 30 31 49 53 54 LONG LAT LOCATION: 11 5528199 391653 UTM 082E15E 082E16W NTS Silver Lump, Lightning Gold, Geo Gold CLAIM(S): OPERATOR(S): Grazina Res. Borovic, I. AUTHOR(S): 1988, 71 Pages REPORT YEAR: COMMODITIES -SEARCHED FOR: Silver,Lead,Zinc,Gold GEOLOGICAL Sedimentary and volcanic rocks of the Permian Anarchist Group SUMMARY: are intruded by granitic and granodioritic rocks of Cretaceous age. Mineralization composed of pyrite, sphalerite, chalcopyrite, galena with silver and gold occurs as disseminated grains, fracture fillings and massive lenses in quartz-carbonate gangue within fractured and faulted rocks. The regional structure is a roof pendant within Cretaceous granodiorites. Locally large shears control mineralization. WORK Geological, Geophysical, Geochemical DONE: 26.0 km;VLF EMGR Map(s) - 4; Scale(s) - 1:5000108.0 ha GEOL 26.0 km LINE 26.0 km MAGG Map(s) - 1; Scale(s) - 1:5000SOIL 500 sample(s) ;AU,AG,CU,PB,ZN Map(s) - 5; Scale(s) - 1:5000

_	
]	
]	
- - 	
7	
1	

IGNA
engineering & consulting ltd.

LOG NO: 0629	PD.
ACTION:	
FILE NO:	

FILMED

REPORT ON THE MINERAL

EXPLORATION

OF

THE SILVER LUMP PROPERTY

Lat. 49 53'N; Long. 118 29'W

N.T.S. 82 E/15E & 16W

VERNON M. D.

British Columbia

1987

SUMMARY AND EVALUATION GEOLOGICAL BRANCH AFS-SESSMENT REPORT



4258 WEST 10th AVENUE / VANCOUVER, B.C. CANADA V6R 2H4 / (604) 224-5464



Β

 \Box

 \Box

[]

TABLE OF CONTENTS

EXPLORATION PLAN AND ESTIMATED BUDGET 1988.....2 GEOLOGY.....5 HISTORY OF EXPLORATION AND MINING......7 WORK DONE GEOPHYSICAL SURVEY 1987.....15 Ground Magnetic Survey(Total Field).....15 Ground VLF Survey.....16 GEOCHEMICAL SURVEY 1987.....18 APPENDIX #1 VLF Theory APPENDIX #2 VLF, Magnetometer and Geochemistry Data List of illustrations following page Location map(Fig.1).....front Regional Geology(Fig. 3).....5 Geology and Claim Groups(Fig. 4).....7 Mineral Showings(Fig. 5)....8 Exploration Grid(Fig. 7).....14 Detail Geology(Fig. 8).....14 Ground Magnetic Survey (Fig. 9) Total Field.in port VLF Survey (Seattle) Profiles (Fig. 10).....in pokt VLF Survey (Seattle) Interpretation (Fig. 11) in pokt VLF Survey (Annapolis) Profiles (Fig. 12)....in pokt VLF Survey (Annapolis) Interpretation (Fig.13)in pHt Soil Geochemistry, Silver (Fig. 14).....n pckt Soil Geochemistry, Lead (Fig. 15)...... pckt Soil Geochemistry, Zinc (Fig. 16).....n polt Soil Geochemistry, Gold (Fig. 17).....in pckt Soil Geochemistry, Copper (Fig. 18).....in pckt

page

SUMMARY, CONCLUSIONS AND RECOMMENDATION

Π

D

[]

 $\left[\right]$

Γĵ

The SILVER LUMP property of GRAZINA RESOURCES LTD. is located on the top of Lightning Peak, about 96 km east southeast of Vernon B. C. and about 27 km west of Needles on Lower Arrow Lake.

The property is composed of 5 located claims with 50 units and one reverted crown granted mineral claim called Silver Lump.

The Silver Lump property is well located with respect to potentially favorable geological environs, strong folding, faulting, "hot" contacts and other structures related to mineralizing events.

Past exploration and development work and small scale mining was done on a number of showings related to quartz, pyrite, galena, sphalerite, gold and silver bearing veins located within the sedimentary and volcanic rocks of the Anarchist Group underlying most of the property. The sediments were intruded by granitic and granodioritic rocks of Cretaceous age. Massive limestone lenses were then metamorphosed into various skarns ranging from diopside to garnetite.

The Silver Lump showings are of two general types which include:

- a) sulphide-quartz-carbonate lenses within strong east-west shear zones, and
- b) steeply dipping, northerly trending mineralized quartz veins.

Both types comprise similar paragenesis but proportions of metals contained in the rock are different.

Gold values are present in quartz veins and only minor amounts are present within shear 'zones. This was demonstrated on numerous occasions recently and in the past. Recorded values for gold in the shears are from traces to 0.02 oz/t. Gold values in the quartz veins range from 0.12 to 1.0 oz/t. Silver values range from a few oz/t to 480 oz/t. Both are found nearly in equal amounts in both of the vein systems.

Mineral production since 1904 concentrated mainly on high grade veins with very high silver and base metal content. Gold, in the past, was more of a byproduct. It is recorded that some 35 to 55 tons of high grade silver, lead, zinc, gold and copper ore was shipped to smelter in Trail B. C. from 1904 till 1930.

Geological investigations have found a number of mineralized showings within the old Silver Lump area.

The main mineralized zones extend for about 800 m in a north-south direction.

The assays of the samples collected during the 1987 exploration show high grade silver and gold within quartz veins and lower grade silver and minor gold in east-west shears (see page 15 and Fig. 8)

The VLF survey encountered numerous crossovers. Five of the crossovers are considered true conductors. The conductors are coincidental with anomalous soil assays and vertical magnetic field readings.

A geochemical soil survey has shown numerous very significant anomalous assays for silver, zinc and lead in most areas where later we have encountered coincidental VLF conductors or magnetic anomalies.

All the results of exploration show that the property's geological, structural and mineralogical relations point to the possibility of the existence of a mineral deposit in the property area: Therefore a continuation of the exploration efforts is strongly recommended and an adequate, necessary budget proposed.

It is the writer's opinion that because of the nature of the vein type of silver, zinc, lead and gold mineralization, a more economically advantageous mining situation should also be explored since it is "a possibility in finding replacement pyrite gold mineralization in metamorphosed limestone lenses".

An essential operation in an exploration program is an economic appraisal at each critical juncture in addition to the feasibility study prior to development. The present value of the exploration venture at any time in its history should have a marked impact on the design of the remainder of the exploration program.

It is the writer's opinion that in the next exploration phase trenching and diamond drilling of the various coincidental anomalies should take place. If that phase is successful phase 2, composed of more diamond drilling, should continue.

EXPLORATION PLAN AND ESTIMATED BUDGET 1988.

Exploration work should start by opening and enlarging the surface exposures coincidental with VLF, soil and magnetic anomalies. Geological detail mapping and sampling of the trenches, and geological structural studies should continue. In order to test mineralized structures at depth, diamond drilling of the six significant anomalies which are showing the greatest mineral potential should be done.

The cost of the proposed exploration program is estimated at \$185 150.00. Additional work (Phase 2) would be dependent on favorable results of Phase 1.

[]

[]

[

[]

[]

PHASE 1

[]

 \Box

Geology,engineering,superv Room & Board Trenching Diamond drilling (1500 ft. Assaying Transportation	ision,evaluation @ \$ 70.00/foot)	.\$ 2 .\$ 1 .\$ 10 .\$ 10 .\$	4 000.00 5 000.00 5 000.00 7 000.00 7 000.00 4 000.00
	Total	\$ 16	1 000.00
Contingencies (15% of tota	1)	.\$ 2 [,]	4 150.00
	Total Phase 1	.\$ 18	5 150.00
PHASE 2			
Geology, engineering, super Room and board Diamond drilling (5000 ft. Assaying Transportation	vision @ \$ 70.00/foot)	.\$ 20 .\$ 350 .\$ 350 .\$ 11	0 000.00 6 000.00 0 000.00 2 000.00 5 000.00
	Total	\$ 39	3 000.00
Contingencies (10% of tota	1)	.\$ 3	9 300.00
	Total Phase 2	.\$ 43:	z 300.00

INTRODUCTION

GRAZINA RESOURCES Ltd, a Vancouver, B. C. based mineral exploration company, intends to continue the exploration of the gold, silver, lead, zinc and copper bearing mineral property known in the past as Silver Lump, Rampalo or Lightning Peak, located on the top of the Lightning Peak Mtn. some 65 km east south east from the town of Lumby B. C.

The following report is a summary of information obtained from the various published and private reports, which are listed in the Bibliography on page 21, and from the writer's personal knowledge and experience gained through extensive research and exploration work in the Lightning Peak Mtn. area. The writer visited and examined the Silver Lump property and workings during October, 1987.

Following the writer's recommendations basic exploration work comprising geological mapping, a geochemical soil survey, geophysical VLF and ground magnetic surveys were done during October, November and the first part of December of 1987.

The conclusions expressed in this report are based upon the results of the extensive geological, geochemical and geophysical work done on the Silver Lump property in 1987 and in the past.

PROPERTY

Li

[

Û

[]

[]

 $\left[\right]$

D

Location: (Fig. 1) Lat. 49 53'; Long. 118 29' /82E ISER 160

The Lightning Peak area is about 27 km west of Needles on Lower Arrow lake and about 96 km east south east of Vernon, B. C.

Access:

Access to the property is by a two lane paved road 96 km east from Vernon along Highway #6 to Inonoaklin Crossing, then by the Kettle River logging road south. At K62 on the Kettle River road a secondary logging road is then followed SE across Winifred Creek up over the divide into the Silver Lump property. This road is in good condition and leads into the middle of the Silver Lump RCG. Numerous roads crisscross the property making the old mine workings and showings very accessible.

Claims: (Fig. 2) The Property is composed of five located mineral claims with a total of 50 units and one reverted crown grant(RCG) as follows:

Rec. No.	Lot No.	Rec. Date		
2326		Aug. 21.1987.		
2327 `		Aug, 21.1987.		
2328		Aug, 21.1987.		
2329		Aug, 21.1987.		
2330		Aug, 21.1987.		
2301	2409	June,27.1987.		
	Rec. No. 2326 2327 2328 2329 2329 2330 2301	Rec. No. Lot No. 2326 2327 2328 2329 2330 2301 2409		

Owner: GRAZINA RESOURCES Ltd. 1407-750 W. Pender St. Vancouver, B. C. V6C 2T7 Title of the claims was examined by t

Title of the claims was examined by the writer on Oct., 1987, at the Mining Recorder's office, Vernon, B. C. and claims found to be in good standing.

Facilities and Services:

Room and board for the exploration crew is available in the camping place 34 km north of the property at the intersection of the main logging road and Highway #6.. Exploration supplies and equipment are available in Vernon 96 km to the west. There are also all necessary hospital, school and transportation facilities available in Vernon.



 $\left[\right]$

Γ

Property facilities:

Timber and water are available on the property or in close proximity.

GEOLOGY

| |

Regional Geology (Fig. 3)

The regional geology of the Silver Lump area is described in more detail by Cairnes C. E. (1930) and Little H. W. (1957). The area is underlain by a roof pendant composed of sediments and volcanic rocks of the Permian Anarchist Group, and intruded and surrounded by the Nelson and Valhalla granites of the Cretaceous period.

The Anarchist Group is represented by sedimentary and volcanic rocks mainly greenstone, greywacke, limestones and paragneiss. According to Cairnes (1930) the limestone belt extends from the Potosi group in the west to and across the Silver Lump property. The limestone is metamorphosed into skarn. The skarn type mineralization occurs within the property.

During and following the granitic intrusion the roof pendant sediments became intensely metamorphosed and metasomatized. Specifically, the hot solutions from the granite carrying iron and magnesia changed the sedimentary rocks, particularly the limestone to a variety of skarns ranging from diopside skarn to garnetite.

Subsequent erosion removed the overlying rocks exposing the granites and the roof pendant contacts.

Glacial deposition of till during the Pleistocene age covered much of the bedrock so that outcrops are sparse over large areas.

Structure

The Lightning Peak roof pendant structurally represents a westerly plunging syncline. Near the eastern end of the roof pendant, in the area of the Fay Day property, the lithologies are predominantly volcanic flows which are gradually succeeded to the west by tuffaceous and sedimentary rock types. The limestones may be the youngest rocks of The Anarchist Group in the area.



[_]

Mineralization (Fig. 4 & 5)

 $\left[\right]$

 \Box

[

Π

The Lighting Peak roof pendant is extensively mineralized. More than 20 showings were noted and all of them fall within the area of the roof pendant. The showings have been recorded since 1904 and onwards at the time when the major interest of mining companies was centered on the veins with massive high grade mineralization.

It is obvious that granites surrounding the Lightning Feak roof pendant have high heavy metal concentrations as evidenced by the large number of mineral occurrences in the area. Thus it follows that there is a good chance of finding an economic mineral deposit associated with the granites of Lightning Peak.

Mineralized hydrothermal solutions coming from a granitic intrusion have been deposited mainly in the rocks near the granite-sediment contact.

Metamorphosed calcareous tuff of The Anarchist Group of the Upper Paleozoic age is cut by several east-west trending shear zones and injected by many calcite veins and veinlets.

Pyrite, sphalerite, chalcopyrite and galena occur as disseminated grains, fracture fillings, stringers and massive lenses in quartz-carbonate gangue in intensely altered, fractured and faulted rocks.

"The relations between the north-south system of quartz veins and the east-west trending mineralized shear zones is not well understood. Though much of the same mineral paragenesis is present in both, the proportions are quite different. Pyrite is the only visible mineral present in quartz veins and is only a minor constituent of the shear zones... gold values are significant in the quartz veins and are of minor importance in the shear zones. High grade silver minerals are present in both systems, but are more abundant in the east-west veins which include conspicuous amounts of ruby and native silver, whereas the north-south veins contain more grey copper. The inference is that the two vein systems were formed at different times or under different conditions."(Cairnes, C. E. 1930)

Property Geology

[]

 \Box

 \Box

Two different rock types were recognized in the field: recrystallized limestone and intrusive granite to granodiorite.

The limestone is recrystallized to a coarse marble. The colour varies from white to rusty red at the surface and gray to greenish gray below the surface. The intrusive rocks are light to dark gray in colour, fine to coarse grain, and massive. The composition of intrusive is variable from almost of alaskite composition to that of a mafic granodiorite.

The intrusive vary from massive bodies to narrow vertical dykes. The contacts between the limestone and the intrusive are usually deeply weathered and have the appearance of gossan where observed at the surface. The gossan zones vary from a few cm to over 1 m in width.

Structure

The strikes of the contacts vary considerably from place to place as the intrusive bodies appear to be irregular in shape and size.

The mineralized zone of the Silver Lump Showing is apparently associated with two shear zones. The limestone horizon, as mapped previously in the property area, is at least 220 meters long and at least 80 meters wide.

HISTORY OF EXPLORATION AND MINING

(Location of mineral showings and properties are shown on Fig. 4 & 5)

1904

About 16 miles of pack trail was built from Fire Valley to the Lightning Feak Group property. A small group of men carried on development till the end of the year.

1917

Development on the Waterloo property consisted of open-cuts and tunnels. The 4 foot wide lead was not developed to any great depth.

1918

Some high grade silver ores at Lightning Peak were discovered.

<u>SKETCH MAD SHOWING GEOLOGY Y CLAIM GR</u> LIGHTNING PEAK AREA.	<u>OUPS</u>
SCALE . 5000 10000 20.000 FEET:	
LEGEND	l
2 Waterloo, Cá 9 First Chance, C.G. 3 Rampalo, ca 10 West Fork, C.G. 4 Silver Lump C.G. 11 Jim Hill, C.G. 5 Lost Cayuse, CG. 12 Morning 6 Lucky Jim Fraction, (A 13 Cordova 7 Killarney 15 Silver Spot	*
Image: State of the state	
Porosi acom Porosi acom Nianonya Grp Water Loo Water Loo Golo Mines Lumpus 10 Lumpus 10 Scoup Lumpus 10 Scoup	
Willh report by RD Freeland, I	933,
Resident Mining Engin Penticton, B.C.	cer;
B.C.Department of Mi	ines.
GRAZINA RESOURCES SILVER LUMP PROPERTY	s Ltd
SCALE: APPROVED BY:	DRAWN BY
DATE: FEB. 1988.	NTS 82E/15416W
GEOLOGY & CLAIM GRO	DUPS
IGNA engineering & consulting ltd.	DRAWING NUMBER

]

 $\left[\right]$

The Lightning Creek and Extension (Equinox Group) property was worked by W. A. Calder and two men. Development consisted of shafts, 97 feet, tunnels, 150 feet, crosscuts, 37 feet, and open-cuts, 50 feet. Ten tons of silver lead ore were shipped to the Trail smelter.

Development on the Rampalo property, owned by T. Cortiana, consisted of 75 feet of open-cut and tunnel.

1920

W. A. Calder shipped 6 tons of ore to Trail from the Lightning Peak claim of the Equinox group which carried some silver and high values in lead.

Development on the Rampalo was advanced by the owner and was continued during the winter.

1921

The Lightning Feak mine was leased to William Williams and a 400-foot drift commenced with the idea of developing the vein about 40 feet below the winze. Some good ore, with high lead content, was encountered in segregations in a 4-foot lead.

Work done on the Rampalo and Silver Lump claims consisted of a 400-foot tunnel and 27-foot upraise. Silver sulfide ore was struck in this tunnel scattered through the limestone, carrying values of 137 oz Ag, 0.35 oz Au, to the ton.

1922

Development done on the West Fork claim, one of the old Equinox group, leased by W. Williams, consisted of a tunnel driven 70 feet on the lead, and a shaft sunk 19 feet in depth and 29 feet from the face of the tunnel. The ore, in silver-lead and zinc sulfides with specks of chalcopyrite, occurred in lenses in a 4-foot lead. High silver and lead values were found near the shaft. Seven and a half tons of silver-lead ore from the lower tunnel were shipped to the Trail smelter. A general sample of sorted ore carried 23 oz Ag, 54% Fb, and 5.5% Zn to the ton. Samples from the shaft carried 150 oz Ag, 64% Pb, and 4% Zn to the ton.

The Killarney claim was owned by W. Bunting of Edgewood. Frior to 1922 two tunnels of 25 and 50 feet respectively were driven into the wash and broken ground near the creek. A few tons of silver-lead ore were taken out of this ground, but the vein in-place was not found.

Only assessment-work was done on the Waterloo and Potosi claims. On the Waterloo further exploration of the lower tunnel developed more lower grade ore than was found near the surface. No further ore developments were made on the Potosi.



 $\left[\right]$

Ten tons of silver-lead ore were shipped to the Trail smelter from the West Fork claim.

1924 Only a few tons of ore were shipped from the West Fork claim.

On the Killarney claim an open-cut 20 feet deep was excavated. Development opened up a lead 4 to 8 inches wide, containing galena, gold and silver, but not consistently mineralized. A new crosscut was driven below present workings to give 72 feet more depth.

1925

Fractically all development work was done at the extreme ends of a mineralized belt on the Lightning Peak group and very little was known regarding the possibilities in between due to a heavy overburden of gravel and loam.

Veins so far developed measured from 2 inches to 6 feet in width, with the values decreasing as the vein widened. Samples from the smaller veins on the Killarney and West Fork carried values from 20 oz Ag to the ton, 8% Pb and 9% Zn to 180 oz Ag to the ton, 50% Pb and 15% Zn. From the larger veins such as on the Waterloo claim, values amounted to 18 oz Ag to the ton, 8.5% Pb and 9% Zn with much higher values obtained with close sorting.

Development-work on the Lightning Peak Group consisted of several hundred feet of tunnels and a shaft 95 feet deep, but there was very little ore developed, although several hundred tons had been shipped. A sample of the sorted ore assayed 50 oz Ag to the ton and 50% Fb.

A sample from the Killarney claim assayed a trace Au, 180 oz Ag to the ton, 49% Pb and 3% Zn. A crosscut was driven 125 feet below to tap the vein uncovered in an open-cut.

No work was done on the Rampalo Group.

On the AU and Silver Spot No. 2 surface trenching, open-cuts and shallow shafts excavated about 200 feet apart developed a vein about 1,500 feet in length. A sample from a shaft 10 feet deep, where the vein was 10 inches wide, assayed 0.12 oz Au, 24.5 oz Ag to the ton, 13% Fb and 4.5% Zn.

Development on the IXL claim consisted of trenching, open-cuts, and shallow pits.

The Lightning Feak Section was not visited during the season, but assessment-work was reported on other claims. The Government cut out and partially graded a snow-road.

1929

Development on the Fay Day group consisted of numerous open-cuts along a mineral-zone 600 feet in length, which measured 2 feet across in the narrowest and 6 feet in the widest part. The ore-minerals were pyrite, sphalerite, galena, and specks of chalcopyrite in a siliceous gangue. At an elevation of about 30 feet below, a crosscut tunnel was driven which intersected the vein. A ten foot sample of the more solid sulfides assayed: Au, trace; Ag, 30 oz to the ton; Cu, 4.2%; Fb, nil; Zn, 12%; Ni, nil; Arsenic, nil; bismuth, trace.

An assay from the southwest section of the property contained: Au, .70 oz to the ton; Ag, 480 oz to the ton.

The First Chance group, worked by W.A. Calder of Edgewood, had a lower tunnel driven in an easterly direction for 685 feet along the strike of the vein. The ground had been faulted and only small segments of ore were found. Some high grade ore was mined and shipped from this section in former years.

A 21 foot crosscut was driven under the upper open-cut on the slope of the creek and the vein drifted on for 44 feet on the Killarney claim, owned by W. J. Banting of Edgewood.

1930

.

Shipments of silver-lead-zinc ore were made to the Trail smelter. Development continued on the Waterloo No. 2 tunnel and a lean zone was struck on each side of a narrow tongue of diorite which intruded into the limestone about 30 feet from the face at the time of examination. Some stoping on a high-grade ore-shoot was done about 70 feet from the face. A new tunnel, No. 3, about 90 feet lower in elevation than No. 2 was commenced and driven about 50 feet.

A 10 inch sample taken 14 feet down the shaft assayed: Au, 0.36 oz to the ton; Ag, 16.6 oz to the ton; Pb, 8.2%; Zn, trace.

A preliminary geological survey was made of the area by C. E. Cairnes, of the G.S.C.

Work on the Lightning Peak Group was chiefly concerned with the exploration and development of the main vein or vein zone. Workings on the main vein zone included a shaft, 95 feet deep, four adits, and considerable surface work and investigation of the main vein over a vertical range of about 200 feet and a length of nearly 1.000 feet on either side of the First Chance and West Fork claim boundaries. Most of the production came from workings in the vicinity of the main shaft on the West Fork claim. This shaft was sunk on the vein.

Some surface exploration was done on a quartz vein occurring along the hanging-wall, east side, of a wide dyke of quartz porphyry.

Development work on the Pay Day group included numerous trenches and an adit 60 feet long. A sample assayed: Au, trace; Ag, 30 oz to the ton; Cu 4.2%; Pb, nil; Zn, 12%; Ni, nil; Arsenic, nil, Bismuth, trace.

The principal work that was done in the Rampalo group area was on either side of the boundary between the Rampalo and Silver Lump claims. There three adits varying in length from 60 to 390 feet were driven to develop a quartz vein. This adit was 60 feet long and followed the claim. 250 oz Ag and \$10 in gold are said to have been obtained.

On the Victoria claim surface work exposed two narrow quartz veins each about 6 inches wide in which some mineralization occurred.

On the Condor fraction a little surface work was done to investigate a shear zone several feet wide.

Most of the work on the Killarney property was done on the Killarney claim. Two main `adits and three shorter adits were driven and considerable trenching and stripping were done.

1931

Ĵ

Development during the early part of the season concentrated upon sinking the inclined shaft on the AU claim, commenced in 1930, to a depth of 70 feet and drifting on the vein 72 feet, with a crosscut at the end of the drift 40 feet long. During the autumn this work was discontinued and a lower tunnel <No. 4) was driven on the Waterloo claim. A sample of ore taken from the bottom of the shaft assayed: Au, 1 oz per ton; Ag, 24.5 oz per ton; Pb, 10.5%; Zn, 8%. This compares with a ten-inch sample taken 14 feet down the shaft in 1930 which assayed: Au, 0.36 oz per ton; Ag, 16.6 oz per ton; Fb, 8.2%; Zn, trace.

The No. 4 tunnel was driven ahead for a total distance of 165 feet.

Tunnel measurements to date are as follows: No. 1, 150 feet; No. 2, 380 feet, No. 3, 75 feet; No. 4, 165 feet.

Assessment-work was done on the un-Crown-Granted claims and development on most of the others. No spectacular finds, but interesting mineralization was discovered on the Morning and Potosi groups.

1932

Very little work was done on the property this year, except the cleaning out of No. 4 tunnel on the Waterloo claim which had caved in. A car load of mixed ore was shipped to the Trail smelter that assayed \$30 Au and \$13 Ag per ton.

An assay from the Fay Day group contained 68% Pb and 5 oz Ag per ton.

The inclined shaft upon the AU claim was deepened to 70 feet and a drift driven 72 feet in a southerly direction with a crosscut 10 feet long near the end and across the dyke. A sample of sorted ore from the bottom of the shaft assayed: Au, 1 oz to the ton: Ag 24.5 oz to the ton; Fb. 10.5%; Zn, 8%. This compared with a 10-inch sample taken 14 feet down the shaft in 1930 which assayed: Au, 0.30 oz to the ton; Ag, 16.6 oz to the ton; Fb. 8.2%; Zn, trace.

1933

In the Lightning Peak Area the No. 4 level, 150 feet below the original ore-outcrop, was driven approximately 900 feet and followed the general east-west strike of the main shear-zone.

In the No. 1 and No. 2 tunnels a considerable amount of high-grade ore was mined and shipped to the smelter. Low-grade ore was found in the intermediate and No. 3 tunnels.

1934

Development on the Waterloo No. 3 and Silver Spot consisted of driving No. 4 to a total distance of about 1,780 feet to the east, with occasional short crosscuts north and south excavating numerous open-cuts on the strike of the shear-zone to the east as well as sinking a shallow winze and raising on one of the better-mineralized shear-zones. The end of the No. 4 level is approximately 195 feet below the surface. On the Lightning Peak group the No. 4 level was extended 17 feet to the south through a fault, and the vein, about 3 feet wide with free walls, containing tetrahedrite, galena, pyrite, and sphalerite, was disclosed.

A channel sample assayed: Au, 0.05 oz per ton: Ag 40 oz per ton.

1935

Further development-work was done on No. 4 adit-level on Lightning Peak. This drift was advanced through a faulted area, and what appears to be the vein, though narrow in width, has been picked up on the south side of the fault.

Further surface-stripping was continued on the Potosi-Spokane.

A. Williams and W. B. Johnstone, of Edgewood, continued prospecting and development on the Pay Cheque (formerly Pay Day) claim, located 1,000 to 1,500 feet east of Pay Day.

W. J. Banting, of Edgewood, continued development-work on the Killarney property during the year.

1936

A raise started from No. 4 level and intended to reach No. 2 was driven for some distance when operations were discontinued for the winter on the Waterloo property.

W. A. Calder, of Edgewood, shipped 2 tons of ore from the Lightning Peak property. The metal contents were 214 oz Ag, 363 lb. Pb, and 228 lb. Zn.

1966

Reconnaissance geochemical soil survey of the Hope group was done.

1968

Geochemical and topographic survey. Companies staked 203 mineral claims. Results of geochemical. survey were inconclusive.

1973

Development-work on the Fay Day property included geological mapping of the Fay Day 2 adit at a scale of 1 inch equals 20 feet. Metals included silver, zinc, copper, lead, and minor gold.

1974

Work done on the Fay Day property included surface geological mapping, 1 inch equals 50 feet, and ground magnetometer and electromagnetic survey, 1.5 line-miles, 50-foot grid spacing covering Pay Day 1 and 2. Surface diamond drilling of two holes totalling approximately 300 feet on Pay Day 1 was also done. Metals include silver, copper, lead and zinc. Two diamond drill holes were drilled near the Pay Day adit. Assay results are not available.



1980(Fig. 6) Geophysical survey of Geo 1, 2, 3 and Pay Day claims. Results are shown on Fig. 7. Northeast/southwest trending conductors possible fault-shear zone.

1981 Geological survey of the same area as in 1980.

1984 Geological survey of the Big P. Group.

WORK DONE 1987. (see Fig. 7 for grid location)

An extensive geological, geophysical and geochemical survey was performed in the central part of the Silver Lump property during October, November and the first part of December, 1987.

GEOLOGICAL MAPPING AND PROSPECTING

Detail Geology (Fig. 8)

[

Π

Biotite-Hornblende Granodiorite (Fig. 8, # 3) has intruded and highly altered fine-grained clastic and crystalline sediments and/or volcanic (Tuff?). The appearance of the intrusive on most of the mapped area suggests a "roof pendent" environment. Limestones and limy sediments (Fig.8, # 1a & 1b) are altered to skarn with pyrite and pyrrhotite content. Strong quartz veins within these rocks are mineralized with pyrite, chalcopyrite, galena, malachite and marcašite.

The strike of the vein in the Upper adit (samples #4811, 4812) intersects the strike of mineral veins on line 0; St 9+00W (samples 4809, 4810 & 4814). These samples contain 1-2% pyrite and galena. This structural trend continues to line 3N 6+80W (sample 4815). The sample also contains pyrite and pyrrhotite. Therefore it seems that the mineralized zone striking N 30 E may extend from the upper adit for an approximate strike length of 1.0 km to the northeast.

Another mineralized zone extends from line 4+50 S, 8+00W (sample 4813) through to line 2+00N, and 4+50W (samples 4816 & 4817) also on a trend of N 30 E. Even though the sample 4813 is found in veins striking due north this zone is seen 10 m to the north from location 4813 trending at N 30 E.



Ũ

Π



All sixteen samples (from 4809 to 4824) were analysed for gold, silver, lead, zinc and copper content. Locations of samples are shown on Fig. 8. The results are as follows:

	600	GLYER	Lead	Zinc	Copper	
HANKED	oz/st	oz/st	Pb (%)	Zn (%)	Cu (%)	
SILVER LUHP ORES	· ·					
4809 <u> </u> 4810	0,230	0.65	0.007	0.25 0.05	0.02 0.06	
4811	0.120	17.64	0.020	0.12	0.39	
4812	0.040	34.61	0.083	0.73	0.10 '	
4813	0.010	0.20	0.003	0.03	0.03	
4814	0.004	0.15	0,021	.0.01	0.01	
4815	0.010	0.10	0,017	/0.01	0,01	
4816	0.006	0.05	0.003	0.02	0.01	
4817	0.006	0.05	0.002	. 0.01	0.01	
4818	0.004	0.06	0.013	0.01	0,01	
4819	0.006	0.10	0,002	0.01	0.01	
4620	0.010	0,15	0,002	0.01	0.01 ′	
4621	0.004	0.10	0,002	0.02	0.01	
4822	0.232	52.4S	0.003	0.43	0.01	
4823	.0.612	0.12	```0 .0 07	0.01	0.01	
4824	0.020	0.13	0.015	0.02	0.01	

GEOPHYSICAL SURVEY 1987

Ground Magnetic Survey (Total Field) (Fig. 9) Field Method and Instrumentation

The ground magnetic survey on the Silver Lump property was performed simultaneously with the VLF survey. The Scintrex IGS unit with magnetometer and VLF was used for both surveys. The grid used is described in the GROUND VLF SURVEY. Magnetic readings were taken in conjunction with the VLF readings.

For the survey a portable unit and a base station, fitted with similar proton precision sensors, were used. The base station was programmed to sample the magnetic field every two seconds. The portable unit records the magnetic data, time and station coordinates; corrections are made automatically at the end of the days survey by connecting the portable and base stations to each other.

Data Presentation (Fig. 9)

Corrected values were plotted on 1:5000 scale plan and contoured. Contour intervals are 50 gammas.

Discussion of Results

The magnetic anomalies correlate well with the VLF data. VLF-Conductors #1, 2 and 3 have coincidental magnetic anomalies, although they tend to be displaced west of the VLF crossovers as the survey extends toward south on the property. The large amplitude anomaly is on Line 3S at 1625 W. It can be traced south and extends north as well. This body likely contains iron, magnetite or some other medium with very high magnetic susceptibility properties.

This anomaly is apparently separate from conductor #4.

Another strong magnetic anomaly lies west of conductor #5 and trends north-south (opposite the VLF conductor #5 which runs NW to SE).

Three distinct anomalies lie on 3N at 125 W, 250 W, 350 W as well, with only the 350W anomaly correlating to the VLF crossover found there.

The largest amplitude anomaly is on lines $500 \ \text{S} \ 1350 \ \text{W}$ and on line $600 \ \text{S} \ 1200$ and $1300 \ \text{W}$. It is coincidental with soil anomalous values for zinc, lead and silver.

Ground VLF-EM Survey

Field Method and Instrumentation

A Scintrex IGS VLF-magnetometer instrument was utilized.

A flagged grid was used for the survey, the lines being spaced at 100 meter intervals and the stations every 50 meters. Readings were taken at 25 meter intervals, generally, and at 12.5 meters in some of the anomalous areas.

The Scintrex IGS-2 unit was set up to receive two stations, NKL Seattle, Washington, 24.8 kHz and NSS Annapolis, Maryland 21.4 kHz, measuring the horizontal field strength and the in-phase and out-of phase or quadrature components of the vertical field. The instrument was a three coil system, one horizontal coil and two vertical coils all at 90 angles to each other. The horizontal coil is used to scale the in-phase and quadrature readings, to correct for changes in the strength of the VLF signal at different points on the property. The frequency reference needed to obtain guadrature readings is accomplished by using the magnetic field's frequency.

Data Presentation (Fig. 10/11 ; 12/13)

The in phase and quadrature components of the electromagnetic field are shown as total field values in profiles superimposed on 1:5000 scale maps, one for Seattle and one for Annapolis. The conductors are graded according to their inductive quality and their size (see Fig. 9 and 11). The conductor's quality is expressed as the phase lag of the imaginary from the in-phase reading. Ninety degrees is a perfect conductor while values approaching zero show essentially no conductivity.

Discussion of Results

 $\left[\right]$

Ω

 $\left[\right]$

Seattle and Annapolis (Fig. 10%11)(Fig. 12%13)

Conductor #1 has a characteristic "signature" of a very large phase lag value (85°) and extremely wide surface crossover points, of for example 75 to 50 m wide on line 3S at stations 800, 825, 850. All three of these stations had a zero value for in phase. This indicates a wide shallow or very wide and deep conductor, while the phase lag shows excellent inductive properties.

This "signature" is shown by circled crossover points. It is interesting to note that these conductors had numerous trenches dug in their vicinity such as line 4S at about 1050 west; where a trench extends about 10 m off a logging road.

Conductor #2. west of #1 again, has this signature at 4S and 1050 W on the Seattle map.

Conductor #3 joins conductor #2 in this area. These conductors separate in a "V" shape northwards. The associated phase lags on these conductors is in the high seventies or low eighties, excellent prospects.

Conductor #4 traverses lines 3S to 5S with this signature seen on the Annapolis map at 5S, 1550 W, another excellent prospect given low seventies and mid eighties for phase lags.

Conductor #5 on the east edge of line 3S and at 250W on line 2S has the wide crossovers, but the phase lag is in the mid seventies, a good prospect.

Conductor #6 at 450W on line 3N has the discussed signature. with phase lags of mid sixties to high seventies.

Conductor #7 is an isolated very good conductor at 25 and 25W.

Conductors #1 through #4 show the most promise in the surveyed area.

GEOCHEMICAL SURVEY 1987

Summary of Results and Correlation with Geophysical, Magnetometer and VLF Surveys.

A geochemical soil survey was done over the central part of the property on a 24.9 km/line grid.

Sampling method:

Samples were taken from the reddish brown "B" horizon which is about 15 to 25 cm below the surface. In most cases a layer of humus is only 2 to 4 cm thick and an underlying leached layer is from 4 to 10 cm thick. The soil material was collected with a spoon; cleaned of larger size particles and put in the standard soil sample envelope which was marked with a coordinate location. Samples were collected at regular 50 m intervals along the lines.

Analytical methods:

Soil samples were dried, pulverized, screened to -80 mesh, and the subsequent AA analyses were done by General Testing Laboratories of Vancouver, B.C. Samples were assayed for silver, lead, zinc, gold and copper.

Summary of Results

Silver(Fig. 14) Anomalous values begin at 1.0 ppm to 3.5 ppm. Values above 3.5

ppm are highly anomalous. Highly anomalous values are located in the central area surrounding the Upper adit vein and showings .

Significant anomalies:

-L 400 N St 1400 W.

-L 300 N St 750 to 800W. This anomaly extends south to L 600 S St 750 W for about 800 m of strike length. It is coincidental with a strike of the vein structure located on the same place and also with fault-shear zone indicated by magnetic survey . A very strong crossover-conductor is mapped by VLF on approximately same location. -L 200 N St 1100 W also extends southwest across L 100 S St 1350 W to L 700 S St 1300 to 1400 W for about 800 m strike

langth. -L 100 S St 1000 W extends to L 600 S 1150 W.

-L 100 S St 1650 W.

-L 600 S St 1600 W.

Lead (Fig. 15):

 $\left[\right]$

 \Box

Lead being a less mobile element than zinc shows great anomalies beginning at 30 ppm and highly anomalous values beginning at 100 ppm.

Significant anomalies:

L 300 N St 750 W; L 0 S St 200 W;1050 W; 1350-1450 W.

L 300 N ST 800 & 700 W to L 200 S 700 to 800 W & L 100 N to L 100 S ST 450 to 500 W.

Zinc (Fig. 16):

Dispersion of zinc throughout the soils in the grid area shows that the amount of zinc in the underlying rocks is not large. Anomalous values begin at 50 ppm and highly anomalous values are 100 ppm and higher.

Significant anomalies:

L 400 N St 1600 W extends south across L 0 N St 1050 W spreads south to significantly anomalous area on L 300 S St 850 W; L 400 S St 850 to 1000 W and L 600 S St 800 to 1150 W.

Gold (Fig. 17)

Gold dispersion is fairly uniform except for a few anomalous peaks. Background values of 0.02 ppm (20 ppb) gold is very high. Anomalous values start at 0.025 ppm (25 ppb) and significant anomalies begin at 0.03 ppm (30 ppb).

Significant anomalies:

L 400 N St 400 W and 1050 W. L 300 N St 1350 W. L 200 N St 0 and 250 W. L 100 N St 1500 W. L 200 S St 800 W.

Copper (Fig 18):

Copper dispersion is minimal. It is obvious that copper is a minor constituent of the mineralized veins or mineralized zones.

÷

Discussion of Results

 \Box

Significant silver, lead, zinc and gold anomalies occur in the surveyed area and the correlation with the geological and geophysical surveys shows very strong coincidental subparallel soil, VLF and magnetic anomalies. These anomalies are also alined with known mineral showings which were mapped on the property.

It is my opinion that the strong coincidental soil, VLF and magnetic field anomalies are mainly caused by underlying mineralized rocks. These areas should be excavated and drilled in order to examine the horizontal and vertical extent of the underlying mineralization. BIBLIOGRAPHY

- Cairnes C. E. (1930) Lightning Peak Area, Osoyoos Dist. -B. C. GSC Summary Report 1930, Part A.
- Bayrock L. A. (1981) Geological Report on the Big F2 Claim of the Claim Group. Big F1, 2, 3 and Little F1
- British Columbia Ministry of Mines Reports Lightnings Peak Camp 1904, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1925, 1927, 1929, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1939, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955
- Belik G. (1984) Geophysical Report on the Big P Group Vernon Mining Division, B.C. N.T.S. 82E/15E, 16W
- Daughtry K. L. (1974) Geological Report on the Underground Workings Pay Day Group, Lightning Peak Area. Vernon Mining Division, B. C.
- MacLeod, Y. W. and Keefe, Y. A. C. (1959-1960) McIntyre Porcupine Mines Ltd., General, Geochemical and Geophysical Assessment Work Report 1959-1960. B.C. Dept. of Mines Files.
- Ostensoe, L. (1962) Reports and Drill Logs of 1962 Exploration Program for Coast Exploration at Lightning Peak - Private Reports.
- Mahom, R. B. (1964) Reports on Exploration 1964 for Northern Exploration Ltd. - Private Reports.
- Riley C. (1962) A Report on the Lightning Peak Property of Paycheck Development Company, April 24, 1962 -Private Report.
- Tindale Y. L. (1968) A Report on Geochemical and Topographic Survey Conducted by International Mine Services Ltd. For Great Horn Mining Syndicate Inc. On Mineral Claims Feak 1-203 Day 1-4, Mineral Lease M-22 Lightning Feak Area, Vernon Mining Division.
- Weeks Y. F. (1966) Geochemical Report on the Hope Group Of Claims. Lighting Peak - 49° 118° N.E. For Bralorne Pioneer Mines Ltd. Assessment Files B.C. Dept. of Mines
- White G. E. (1980) Geophysical Geochemical Report Amore Minerals Incorporated Geo 1 and 2 mineral claims, Vernon Mining Division

COST BREAKDOWN OF PHASE 1 PROGRAM			
RE: Silver Lump Project			
EXPLORATION GRID ESTABLISHMENT:			
26 km/lines @ \$600.00/km/ materials	\$	15 1	400.00 350.23
GEOLOGICAL MAPPING, SAMPLING: (Two geologists and an assistant) 41 man/days @ \$ 350.00 man/day	\$	14	500.00
Supervision-management: 2 days @ \$ 500.00/day	\$	1	000.00
GEOPHYSICAL SURVEY: (VLF-EM and Magnetometer) Equipment rental Two geophysicists 16 man/days @ \$ 400.00 man/day	\$	5	445.90 400.00
GEOCHEMICAL SURVEY: 500 samples @ 17.00/sample Assaying rocks and soils (General Testing Lab.)	\$ \$	8 5	500.00 587.11
Camp cost Room and board	\$	3	423.26
Transportation Truck and skidoo rentals plus gas Air fares	\$	3	449.90 640.03
Computer plotting, stats. Draughting	\$		967.50 730.00
REPORT AND OFFICE COSTS:			
Geological interpretation, report 26 man/days @ \$400.00	\$	10	300.00
Word processing 21 hours @ 30.00 Blackline printing Photocopying, binding	\$ \$ \$		430.00 380.00 390.00
TOTAL FOR PHASE I	\$	78	193.93

[]

CERTIFICATE

I, I. Borovic, of the city of Vancouver, B. C., do hereby certify that:

- 1. I have personally supervised the exploration program carried out in the area of the Silver Lump property of Grazina Resources Ltd. located 96 km east south east of Vernon, B.C.
- 2 The expenditures claimed for the performance of the work are correct.

Respectfully submitted

I. Borovic. P.Eng.

Vancouver, Feb. 3, 1988.

 $\left[\right]$

[]

APPENDIX #1

-

•

۰.

Appendix #1: VLF Theory

The signal transmitted by the VLF station is recorded by the vertical coils as: $Hp = A \sin wt$; $Hs = B \cos (wt -)$ (1.0) where Hp = primary signal

Hs = secondary (phase lag) signal

- w = frequency
- t = time
 - = phase lag

A = amplitude of primary signal B = amplitude of secondary signal These two received signals combine giving an ellipse, which has two axis corresponding to the maximum length and minimum width of the ellipse.

Hp² + Hs² - 2 HpHs sin = cos² (2.0) A² B² AB

By measuring the angle from horizontal of the long axis of the ellipse, a conductor is located when this tilt angle is zero. The Scintrex IGS VLF measures the primary vertical (in phase) Hp and the secondary (quadrature) Hs to obtain a conductor's location (from Hp) and the conductor's quality using both Hp and Hs. ie

 $= 1/2 \tan^{-1} (2 \text{ Hp}/100(1-e^2))$ where = tilt angle (degrees)

Hp = vertical in phase, expressed as a %

= tan⁻¹ (Hp/Hs)

ie:

where = phase lag (degrees)

Hp = vertical in phase (any units)

Hs = vertical quadrature (same units as Hp)

Since the quadrature readings require a magnetic field phase reference, using unpublished means, the phase lag value is untested and should be considered qualitative only, but is likely reasonably precise (the readings are repeatable), but may or may not be accurate (the correct value).

10.10


.

• •.

[]

 \mathbf{r}'

ι

• ۰.

L-CP	ID:	1. LINE	: 700.S
$\prod 2$	STATION	ΤΩΤFLD	TIME
U	2000.W	57561.5	11:07:23
	1975.W	57552.4	11:06:25
m	1950.W	57575.6	11:05:38
	1925.W	57588.5	11:04:48
	1900.W	57567.3	11:03:48
_	1875 W	57604.3	11:03:01
	1850.W	57643.8	11:02:10
	1825.W	57576.0	11:00:59
	1800.W	57546.7	11:00:07
	1775.W	57587.6	10:57:15
	1750.W	57516.2	10:58:26
	1725.W	57599.1	10:57:35
0	1700.W	57603.4	10:56:43
	1675.W	57556.6	10:55:47
h	1650.W	57513.4	10:54:44
~	1625.W	57524.1	10:53:53
	1600.W	57522.4	10:52:55
نا	1575.W	57524.2	10:52:07
	1550.W	57492.9	10:51:10
n	1525.W	57485.5	10:50:19
L	1500.W	57531.0	10:49:23
	1475 . W	57567.3	10:48:20
	1450 W	57601.7	10:46:47
)	1425.W	57490.6	10:45:25
v∕	1400.W	57503.0	10:44:35
2	1375.W	57498.8	10:43:41
1	1350.W	57514.6	10:42:44
()	1325.W	57497.9	10:41:07
	1300.W	57512.4	10:39:31
Π	1275.W	57536.6	10:37:58
	1250.W	57706.9	10:36:41
	1225.W	57632.3	10:35:29
	1200.W	57716.0	10:34:08
	1175.W	58014.6	10:33:15
4-J	1150.W	57706.6	10:31:31
-	1125.W	57490.4	10:30:28
	1100.W	57476.4	10:27:43
	1075.W	57473.6	10:28:35
	1050.W	57483.5	10:26:54

. *د*

	סוץ:	1. LINE:	700.5
\square	STATION	TOT~FLD	TIME
	1025.W	57448.8	10:25:38
	1000.W	57576.8	10:23:28
	975.W	57498.3	10:22:34
	950.W	57549.0	10:21:08
	925.W	57543.8	10:19:12
-	900.W	57510.7	10:15:13
1	875.W	57551.7	10:13:36
⊾ ,J	850.W	57275.4	10:12:21
_	825.W	57372.2	10:11:06
	800.W	57493.4	10:10:12
	775.W	57537.0	10:09:23
	750.W	57545.8	10:08:41
	725.W	57502.4	10:07:51
	700.W	57522.3	10:06:58
	675.W	57536.0	10:06:10
	620°M	57429.3	10:05:19
I I	625.W	57528.0	10:04:25
6.1	600.W	57529.7	10:03:30
-	575.W	57526.6	10:02:38
	550.W	57547.9	10:01:49
	525.W	57548.0	10:00:58
	500.W	57567.5	10:00:01
$ \frown $	475.W	57556.5	09:59:10
レン	/ 450.W	5/548.4	09:58:26
	420.W	37308.9	07:3/:3/
	400.W	5/330.6	09:38:30
	370.W	5/529.1	07:00:00
L _J	300.W 705 U	3/478.7 E7E97 E	07:34:37 00:57:60
<u> </u>		474444 87841 7	07,33,30 00:57:00
11	000 W	57515 O	07:00:07
U	270×0	5751510	07:02:20 A0:51:77
	200 W	57554 Q	07:01:07
Π	220°W	57559 /	
	175 U	57570 A	07.47.00 00:40:20
	150 M	57541 1	07.40.20 09.47.40
	125.6	57554.0	09:46:51
	100-14	57523.4	09:45:04
	75. M	57432.8	09:44:08
-	50.W	57540.7	09:43:15
)	25.W	57509.5	07:42:01
L	0.	57516.9	07:40:01

,

۰.

	ID:	1. LINE:	: 600.S
$\overrightarrow{\mathbf{h}}$			
	STATION	TOT-FLD	TIME
	2000.W	57685.6	11:11:17
	1975.W	57674.9	11:12:16
Π	1950.W	57593.8	11:13:10
	1925.W	57554.4	11:14:00
	1900.W	57566.3	11:14:53
	1875.W	57569.3	11:15:43
	1850.W	57592.7	11:16:54
L −J	1825.W	57641.2	11:17:51
	1800.W	57694.9	11:18:43
	1775.W	57763.1	11:17:41
	1750.W	57691.4	11:20:42
	1725 W	57584.2	11:21:33
n	1700.W	57471.8	11:22:20
11	1675 W	57460.0	11:23:07
	1650	57477 1	11:24:01
_	1625 M	57495 0	11:25:01
Π	1400 14	57500 E	11•25•57
U	1690 U	07027%0 87847 0	11:20:0/ 11:07:10
	10/3.0	3/308.8	11:27:18
-	1550.W	5/516.3	11:28:13
1	1525.W	57560.3	11:29:08
	1500.W	57549.3	11:30:12
	1475.W	57573.0	11:31:18
$\neg \neg$	1450.W	57662.4	11:32:12
	1425.W	57646.9	11:33:22
,-*'	1400.W	57654.7	11:34:34
-	1375.W	57527.2	11:35:26
]]	1350.W	57497.5	11:36:26
	1325.W	57537.8	11:37:43
	1300.W	58085.8	11:38:55
	1275.W	57531.2	11:40:37
	1250.W	57587.7	11:41:23
L J	12001W	57405 0	11:40:17
_	1223.W		11=72=17
	1200.0	0/7/2.0 E0107 0	11:40:12
	11/3.4	57183.8	11:44:18
	1150.W	57881.8	11:45:25
	1125.W	574.30.1	11:46:38
	1100.W	57474.1	11:47:49
- -1	1075.W	57511.3	11:49:53
	1050.W	57532.3	11:50:52
Π	1025.W	57589.3	11:51:36
	1000.W	57510.4	11:52:49
	975.W	57520.2	11:53:44
—	950.W	57507.2	11:54:27
	925.W	57517.4	11:55:10
	900.W	57523.4	11:56:47
	875.W	57531.7	11:57:49
	850.W	57524.7	11:58:46
	825.W	57537-2	12:00:10
	800 1	57525 1	12:01:28
1	775 W	57570 7	12.02.25
	773.W 756 0	5/500./ 575/5 /	10-07-00
Ľ <u>"</u> !	730.W	J/J40.4 E7E40 7	10105-00
ł	720,W	3/348./	12:00:22
ń	700.W	0/0//.7	12:06:28
	675 W	37570.1	12:08:19
۱ <u>۲</u>	650.W	57561.9	12:09:29

D IGSEDIT	Summary	Page	4
		1	

L TID:	1. LINE:	600.S
STATION.		TIME
425 H	57545 7	17-10-14
	57558 K	10-11-74
П 575 M	57540 A	10+10+75
	57557 0	ተምም የሚያ ማይታ በመቀ በ 2 ቀ ላ ላ
 ສາສ ພ	37333.V 87550 T	12:13:44
- 500 M	57572 7	17412420
Δ.75 W	57507 S	17.17.40
	1/12/10 E7E7E E	1.2.4.17.470
사고지고 씨 개 그 박 태	37373.3 57500 0	12:10:00
	5750E E	10:01:70
700°M	57500 A	12,21,00
270.W	37307±V 57570 0	10=07=00
	07027×0 57573 5	12+20+72 19+94+41
	0/0/0:0 E7515 5	10=74=44
	57505 0	10.07.00
273.W	57504 L	10=07=50
1 200.W	3/300°0 57/00 5	17:20:17
200 M	575/5 0	1つ= ズハ= 11
175 W	0/070,2 57576 A	10*31*00
170.W	57528.V E7700 7	10.20102
105 W	3/800./ 575/5 0	12:32:03
	37383.0 57531 0	12.00.00
100 s W	0/021.0 E7E17 A	144000000000000000000000000000000000000
	3/31/.V E7E30 /	12:34:31
	3/347.6 5750/ T	12:30:08
23.W	a/az4.s	12:36:37

	EDIT Sum	mary Page	5
	ID:	1. LINE	: 500.8
	STATION	TOT-FLD	TIME
	2000.W 1975.W	57637.9	14:23:56
Π	1950.W 1925.W	57552.2 57473 1	14:22:39
▶ 1	1900.W	57483.2	14:20:34
Π	1875.W 1850.W	57470.1 57478.6	14:19:43 14:19:00
1_1	1825.W	57486.3	14:18:08
Π	1775.W	57636.8	14:16:13
	1750.W 1725 М	57512.9 57529 5	14:15:32
	1700.W	57541.8	14:13:51
	1675.W 1650.W	57532.0 57537.2	14:12:58
	1625.W	57521.6	14:11:06
	1600.W 1575.W	57520.6 57519.7	14:10:20
-	1550.W	57543.1	14:07:38
	1525.W 1500.W	57591.9 57608.5	14:06:54 14:05:39
	1475.W	57439.1	14:04:28
$\left[\begin{array}{c} \\ \end{array} \right]$	1430.W 1425.W	57512.6	14:03:38
ر -	1400.W	57489.9 57547 0	14:01:47
	1375.W 1350.W	57907.6	14:00:17
11	1325.W	58400.2 57740.0	13:59:04
П	1275.W	57426.3	13:56:25
	1250.W 1225 Ш	57436.9 57714 4	13:53:10
	1200.W	57704.7	13:50:01
	1175.W 1150.W	57685,7 57382 5	13:48:03
-	1125.W	57466.7	13:44:38
	1100.W 1075.W	57508.3 57523.9	13:40:50 13:39:36
_	1050.W	57530.7	13:38:43
	1025.W 1000.W	57539.2 57543.1	13:37:51 13:36:42
•	975.W	57529.7	13:35:10
Π	925.W	57550.4	13:33:24
4_ ;	900.W 875 W	57547.5 57541 2	13:32:08
Π	850.W	57533.6	13:29:53
	825.W 800.W	57552.4 57545.3	13:29:09
h 1	775.W	57545.6	13:27:24
Ļ	750.W 725.W	57545.0 57539.1	13:26:33 13:25:34
Å	700.W	57529.8	13:24:45
	, 673.₩ 	57580.2	13:23:48

۰.

ł

TIGSEDIT	Summary	Page	6
) TAI	

FIL):	1.	LINE:		500.9
<u>Г</u> sт	ATION	TOT-F	FLD	ΤI	ME
L_}	625.W	5754:	1.5	13.2	2:11
	600.W	57547	7.9	13:2	1:21
	575.W	57522	2.7	13:2	20:27
	550.W	57539	7.3	13:1	9:37
	525.W	57580	5.1	13:0	7:57
	500.₩	57588	3.5	13:0	7:05
11	475.W	57599	7.9	13:0	6:16
₩ -3	450.W	57539	7.0	13:0	5:24
,	425.W	5757:	1.6	13:0	4:37
11	400.W	57552	2.5	13:0	3:31
L.)	375 W	57564	4.0	13:0	2:30
	350.W	57573	5.1	13:0	1:41
	325.W	57563	3.1	13:0	0:58
	300.W	57554	1.6	13:0	0:12
-	275.W	57522	7.0	12:5	i9:1 4
	250.W	57523	5.6	12:5	8:21
{ }	225.W	57539	7.1	12:5	i7:26
7	200.W	57528	3,2	12.5	6:26
_	175.W	57498	3.1	12:5	15:39
	150.W	57532	2.0	12:5	4:39
L_ <u>_</u>	125.W	57558	3.2	12:5	3:47
	100.W	57557	1.3	12:5	2:54
$ \ \ \ \ \ \ \ \ \ \ \ \ \ $	75.W	57558	3.3	12:5	52:02
	50.W	57567	7.8	12:5	0:59
	25.W	57558	3.4	12:4	9:18
Π	0.	57542	2.1	12:4	7:28
•·					

ſ

	D:	1. LINE:	400.5
П́я	TATION	τοτ-εί ο	TIME
	750.W	57542.1	15:55:56
	725.W	57556.4	15:55:08
m	700-W	57550.9	15:54:07
	675.W	57556.2	15:53:01
L-)	650. W	57541 6	15:51:58
-	675.W	57549.3	15:50:56
11	600.W	57611.6	15:50:13
↓ _↓	575.W	57537.1	15:49:21
	550.W	57558.5	15:48:32
	525.W	57502.5	15:45:23
	500.W	57595.8	15:44:40
	475.W	57585.2	15:43:44
	450.W	57572.9	15:42:48
	425.W	57655.7	15:41:57
• /	400.W	57570.t	15:40:59
~	375.W	57568.8	15:40:13
	350.W	57584.3	15:39:23
1.1	325.W	57538.3	15:38:32
	300.W	57566.1	15:37:31
Π	275.W	57587.9	15:36:38
l i	250.W	57605.0	15:35:41
	225.W	57547.5	15:34:32
$\Gamma \frown$	200.W	57563.7	15:33:43
	175.W	57593.6	15:32:53
	150.W	57554.0	15:32:15
	125.W	57574.4	15:31:25
	100.W	57586.0	15:30:22
6_ J	75.W	57584.3	15:29:29
	50.W	57624.5	15:28:45
	25.W	57527.7	15:27:57
U	Ο.	57574.4	15:27:11

 $\left[\right]$

L Ser • •.

):	1. LINE:	300.5
🗍 ៍ ទា	TATION	TOT-FLD	TIME
	750.W	57573.0	14:57:26
	725.W	57590.0	14:58:38
П	700.W	57539.8	15:00:09
	675.W	57555.2	15:00:56
	650.W	57546.7	15:01:46
~	625.W	57556,7	15:02:32
	600.W	57577,4	15:03:24
	575.W	57564.9	15:04:17
	550.W	57529.5	15:05:20
Π	525.W	57477.4	15:06:27
	500.W	57500.5	15:07:25
	475.W	57542.8	15:08:15
	450.W	57733.7	15:09:03
	425.W	57587.6	15:09:46
-	400.W	57592.7	15:10:32
-	375,W	57583.9	15:11:22
11	·350.₩	57575.4	15:12:10
	325.W	57576.5	15:13:00
_	300.W	57568,5	15:13:46
Π	275.W	57585,2	15:14:28
	250.W	57537.1	15:15:10
	225.W	57599,8	15:15:50
\sim	200.W	57590.4	15:16:49
	175.W	57560.2	15:17:37
-	150.W	57582.1	15:18:28
~	125.W	57588.0	15:19:27
	100,W	57838.9	15:20:19
k	75.W	57645.6	15:21:04
_	50.W	57552.5	15:22:11
11	25.₩	57612.5	15:22:56
U	0.	57573,9	15:23:55

 \Box

[]

 $\left[\right]$

...

	FID:	1. LINE	: 200.5
$\prod_{i=1}^{n}$	STATION	TOT-FLD	TIME
h _1	2000.W	57510.7	14:38:15
	1975.W	57530.5	14:39:09
	1950.W	57616.7	14:40:02
	1925.W	57534.3	14:40:58
	1900.W	57583.0	14:43:10
	1875.W	57531.8	14:44:02
	1850.W	57682.7	14:45:28
1-3	1825.W	57591.7	14:46:23
-	1800.W	57634.9	14:47:17
	1775.W	57608.6	14:48:15
£1	1750.W	57505.3	14:49:13
	1725.W	57513.6	14:49:47
Π	1700.W	57642.6	14:50:15
	1675.W	57584.2	14:51:09
	1650.W	57656.3	14:53:33
	1625.W	57628.0	14:55:20
	1600.W	57658.5	14:56:30
b ≡i	1575.W	57664.7	14:57:53
	1550.W	57567.1	14:59:11
[]	1525.W	57523.6	15:00:08
L]	1500.W	57536.6	15:01:22

 $\left[\right]$

RI	(D:	1. LINE:	100.5
{ 5	STATION	TOT-FLD	TIME
	2000.W	57634.7	11:17:00
	1975.₩	57588.5	11:17:45
Π	1950.W	57645.4	11:18:40
	1925.W	57587.2	11:19:45
	1900.W	57612.7	11:22:01
	1875.W	57604.6	11:23:39
	1850.W	57600.7	11:24:30
L⊣i	1825.W	57605.6	11:25:50
-	1800.W	57635.7	11:27:26
	1775.W	57620.5	11:28:53
11	1750.W	57644.7	11:30:23
	1725.W	57560.5	11:32:01
	1700.W	57577.4	11:33:40
	1675.W	57611.2	11:36:50
	1650.W	57639.2	11:38:37
m	1625.W	57723.7	11:39:56
	1600.W	57617.2	11:41:13
ن <u>ہ</u>	1575.W	57617.2	11:42:47
	1550.W	57595.3	11:43:41
	1525.W	57577.0	11:44:32
\Box	1500.W	57590.8	11:45:54
	1475.W	57630.3	11:47:25
\neg	1450.W	57624.6	11:48:47
1.1			

 $\left[\right]$

ASA .

(FID:	1. LINE:	о.
	STATION	TOT-FLD	TIME
-	2000.W	57645.2	11:08:40
	1975.W	57677.7	11:06:53
	1950.W	57703.2	11:05:48
1	1925.W	57635.6	11:04:16
	1900.W	57647.6	11:02:53
	1875.W	57612.3	11:01:23
	1850.W	57667.3	10:59:56
	1825.W	57711.1	10:58:14
	1800.W	57725.5	10:56:36
	1775.W	57622.9	10:55:05
- 1	1750.W	57635.8	10:53:49
	1725.W	57634.3	10:52:41
	1700.W	57662.8	10:51:13
	1675.W	57686.2	10:50:03
	1650.W	57642.6	10:48:48
	1625.W	57630.8	10:46:09
1	1600.W	57661.9	10:44:50
▶_ I	1575.W	57651.9	10:43:18
-	1550.W	57795.7	10:41:58
1	1525.W	57614.0	10:38:13
	1500.W	57634.4	10:36:57

	IGSEDIT Sum	mary Page	3
	AID:	1. LINE	: o.
\int	STATION	TOT-FLD	TIME
L	1525.W	57641.8	12:19:51
	1500.W	57658.4	12:21:10
Π	1475.W	57670.7	12:21:59
	1450.W	57682.1	12:22:47
	1425.W	57651.0	12:23:44
Π	1400.W	57670.9	12:24:35
	1375.W	57681.6	12:25:28
	1350.W	57719.2	12:26:15
Π	1320.W	07081×0 87448 0	12:27:01
	1075 H	37003.0 57705 /	12:27:33
	1270.W	57704 1	12:27:20
	1225.W	57705 4	12,31,10
	1200.W	57701.9	12:33:57
673	1175.W	57699.4	12:35:00
-	1150.W	57722.6	12:35:47
	1125.W	57786.3	12:37:41
₩ -3	1100.W	57703.7	12:38:57
_	1075.W	57729.6	12:40:10
]]	1050.W	57710.4	12:41:41
<u>ل_</u> ا	1025.W	57748.1	12:44:07
	1000.W	57795.6	12:45:42
Γ	975.W	57700.9	12:46:44
۲.,		57673.1	12:47:57
	920.W	57712.9 57707 7	12:48:46
\square	900.W	5//03./	12:50:40
	870.W 950 H	3//41.2 57/70 5	12:32:28
	000.W 825 W	57425 1	12:00:07
	800 M	57625.1	12:55:09
	775.W	57591.0	12:55:53
	750.W	57592.2	12:56:34
	725.W	57612.7	12:57:16
	700.W	57542.2	12:57:57
¥='	675.W	57618.9	12:58:44
-	650.W	57547.7	12:59:29
]	625.W	57618.5	13:00:20
€-J	600.W	57529.9	13:01:13
_	575.W	57589.8	13:02:31
	550.W	57575.8	13:03:33
	525.W	57601.2	13:04:20
	300.W	37832.V E7504 E	13:05:38
Π	470.W	37374.3 57610 0	13:06:24
	べつい。の オンビーロ	57490 1	13:07:30
	400. M	57580.1	13:09:08
Π	375.W	57564.2	13:10:01
	- 350.W	57597.0	13:11:19
() 325.W	57592.1	13:12:08
Ĥ	- 300.W	57625.8	13:13:12
	275.W	57611.4	13:13:57
Ţ	250.W	57630,4	13:14:52
-	225.W	57699.8	13:15:41
	200.W	57715.3	13:16:32
1- <i>1</i> ∖	· 175.W	57608.8	13:17:34

EDITED DATA FILE --> b:mag2.CLN

• •.

 $\left[\right]$

	FID:	1. LINE	.: O.
Π	STATION	TOT-FLD	TIME
i ana an	150.W	57615.0	13:18:54
	125.W	57612.8	13:19:47
\Box	100.W	57631.4	13:21:18
	75.W	57508.9	13:23:22
	50.W	57742.3	13:24:26
	25.W	57397.5	13:25:26
	Ο.,	57725.4	13:27:09

귀

سریا (ŢID:	I. LINE	: 100.N
\neg			TIME
	1500 14	57440 /	10-17-10
	1475.W	57696.5	12:12:19
 1	1450-W	57799-8	12:10:12
	1425. W	57943.7	12:09:11
L	1400.W	57823.7	12:08:16
_	1375.W	57696.8	12:07:26
Π	1350.W	57710.6	12:06:50
L)	1325.W	57704.7	12:05:59
	1300.W	57737.1	12:05:11
	1275.W	57735.3	12:04:33
	1250.₩	57744,4	12:03:40
	1225.W	57712.2	12:02:32
	1200.W	57728.9	12:01:24
	1175.W	57762.9	11:59:42
	1150.W	57815.2	11:58:54
,	1125.W	57961.2	11:58:05
[]	1100.W	57962.1	li:57:01
	1075.W	57897.2	11:56:23
	1050.W	57897.9	11:55:20
Π	1025.W	57857.1	11:52:21
[1000.W	57971.1	11:51:27
	975.W	57812.9	11:49:07
~~	∽ 950.W	57735.7	11:48:22
l) 925.W	57765.3	11:47:24
	900.W	57780.9	11:46:25
_	875.W	57841.0	11:45:42
	850.W	57677.7	11:44:49
L.	825.W	57644.8	11:43:34
	800.W	57686.5	11:41:42
	775.W	57602.7	11:40:32
	750.W	57586.4	11:39:26
	725.W	57679.5	11:38:32
	700.W	57636.1	11:37:29
	675.W	57456.2	11:35:18
• •	650.W	57518.3	11:33:58
	625.W	57646.4	11:32:07
	600,W	5/593.2	11:31:11
្រេ	550 H	37373.V 57507 7	11:00:20
	505 M	57501 7	11.27.20
\square	500 W	3737I.Z 57505 0	11×07×20
	475 H	57577 A	11.2/.40
	470.W	57583 8	11-25-50
	400.0	57405 5	11-25-05
	400 W	57674 1	11 * 74 • 11
••• •	375.W	57596.5	11:23:12
-	350.W	57591.1	11:22:04
	325.W	57605.7	11:21:09
	J 300.W	57582.2	11:20:11
<u>11</u>	J 275.W	57577.6	11:19:17
	250.W	57588.5	11:18:24
Ļ	225.W	57607.5	11:17:31
ł	.200.W	57612.4	11:16:51
'n.	175.W	57593.5	11:16:02
<u> </u> _,		57638.6	11:15:10
1.1	net the second	· · · -	

Π

, î

	EDIT SLM	mary Page	£1
	ID:	1. LINE	: 100.N
Π	STATION	TOT-FLD	TIME
	125.W 100.W	57661.5 57628.3	11:14:10 11:13:31
Π	75.W	57616.9	11:12:39
	30.W 25.W	57704.1	11:11:57
	0	57678 1	11+09+34

• •.

5	ID:	1. LINE	: 200.N
n		·T / · · · · · · · · · · · · · · · · · ·	₩ T 54.00*
	1500.W	3/6/3./	10:00:13
_	14/5.W	5///6./	10:01:23
\square	1450.W	57776.5	10:02:10
	1425.W	57902.3	10:03:08
	1400.W	57663.7	10:04:08
	1375.W	57655.0	10:05:07
	1350.W	57719.8	10:06:00
	1325.W	58000,8	10:06:59
F	1300.W	57935.0	10:08:11
11	1275.W	57783.4	10:09:05
	1250.W	57805.9	10:10:20
	1225.W	58028.3	10:11:30
	1200.W	57903.6	lo:12:39
	1175.W	57970.8	10:14:09
•	1150.W	58076.3	10:15:05
-	1125.W	57937.0	10:16:18
	1100.W	57911.6	10:17:20
	1075.W	58073.7	10:18:19
	1050.W	57935.3	10:19:27
	1025. M	57915 1	10:20 75
11	1000-W	57893 9	10:22:29
	975 W	57940 A	10.23.20
-~	050 H	57744 3	10:20:20
$\{ \}$	7004W	U7700.0	
L	9⊻3.W	J/067.4	10:20:01
	900.W	5/81/.1	10:26:47
	875.W	57842,2	10:27:37
	850.W	57705.2	10:28:35
L.i	825.W	57605.5	10:29:16
_	800.W	57792.4	10:30:07
Π	775.W	57644.3	10:30:51
	750.W	57608.1	10:31:42
	725.W	57632.8	10:32:28
	700.W	57523.5	10:33:19
Ì !	675.W	57567.2	10:34:09
.	650.W	57609.3	10:35:00
	625.W	57593.7	10:36:32
Π	600.W	57601.5	10:37:30
	575.W	57607.1	10:38:29
	550.W	57588.9	10:39:38
	525.W	57604.5	10:41:18
	500.W	57585.1	10:42:16
فتيه	475.W	57548.5	10:43:09
	450 . W	57580.8	10:44:28
	425 W	57593 1	10-45-25
	400 H	57548 1	10:44:14
	375.4	57507 A	10:47:04
'n	350 W	57577 2	10.47.50
	202.W	57411 0	10+20-23
	ULUIW 7aa u	0/011,0 67500 0	▲♥# ♥₽# ♥₽ ▲ Ŏ# #₽# #₽
11.ノ	000.W	3/372.8 57/00 7	10:49:45
	275.W	5/600.3	10:50:35
	. 250.W	57629.8	10:51:33
劉 子 5	225.W	57592.2	10:53:22
L 3	{_200 . ₩	57613.2	10:54:46
1	. 175. ₩	57681.2	10:55:48
い。劉	150.W	57647.2	10:56:51
• • • • • • • • •	**************************************		

∏^{IGSEDIT Summary Page} 8

[]

EDITED DATA FILE --> b:mag2.CLN

sin:	1. LINE	200.N
STATION 125.W	TOT-FLD 57669.8	TIME 10:57:45
75.W 50.W 25.W	57690.4 57713.8 57688.1	10:38:47 11:02:05 11:02:45 11:03:18
0.	57685.0	11:04:06

	IGSEDIT Sun	nmary Page	9
Ļ	RID:	1. LINE	:: 300.N
Γ	STATION	TOT-FLD	TIME
	1500.W	57713.2	09:55:44
	1475.W	57785.8	09:54:56
Π	1450.W	57814.6	09:53:58
	1425.W	57762.7	09:53:01
	1400.W	57694.0	07:52:03
	1375.W	57816.1	09:50:59
	1350.W	57695.5	09:50:11
	1325.W	57941.5	09:49:29
_	1300.W	57932.9	09:48:39
	1275.W	57840.4	09:47:49
	1250.W	58087.8	09:46:55
	1225.W	57839.6	09:46:11
Π	1200.W	57939.1	09:45:09
	1175.W	57794.4	09:44:17
	1350.W	57825.2	09:43:32
	1125.W	57661.1	09:42:34
	1100.W	57709.8	09:41:33
	1075.W	57752.2	09:40:41
	1030.W	57904.4	09:39:51
	1023.W	0//07.1 57/20 7	09:38:00 00:74:51
Ц	1000.W	3/83V./ E7778 8	07:38:31
_		07708.8 67770 E	09:34:20
Γ) 730.W	3766.2.3 57765 0	09:33:33
	72.J.W	37703.0 57707 0	07.32:42
	975 H	57452 7	07:01:04 09:30:50
	850 H	57501 3	07:30:37
	875 W	57594 7	09.30.07
	800. W	57605-8	09:28:16
	775.W	57593.1	09:27:13
	750.W	57601 5	09:26:03
6	725.W	57600.6	09:25:05
	700.W	57656.2	07:24:16
	675.W	57680.1	07:23:26
	650.W	57635.1	07:22:34
_	625.W	57498.8	07:21:24
Π	600.W	57637.4	09:20:40
U	575.W	57607.0	09:19:52
	550.W	57664.8	09:18:55
	525.W	57609.6	09:17:39
	500.W	57588.1	07:16:53
	475.W	57591.4	09:15:59
	450.W	57641.4	07:15:02
	425.W	57612.9	09:14:27
6-3	400.W	57603.3	07:13:30
	375.W	5/6/3.3	09:12:51
	330.W	37736.8	09:12:02
Ц		378V4.3 F7740 7	07:11:1/
.() 300.W	J/018.0	07:10:30
		0/408.6 57/00 5	07:07:37
	ZOV.W	3/878.3 57677 7	07:07:06
÷.	420.W	3/3/3./	07:08:28
h	178 1	07041.0 57601 /	09:07:04
	150.W	57693.2	09:06:23

, , ,,

JID:	1. LINE	E: 300. N
STATION	TOT-FLD	TIME
125.W	57768.4	09:04:58
100.W	57631.2	07:04:17
75.W	57657.1	07:03:28
50.W	57655.3	07:02:20
25.W	57693.8	07:00:57
Ö.	57470.1	

GS EDITED DATA FILE SUMMARY

` ```` ۰.

۰.

Ĩ(JID:	1. LINE	E: 400.N
Π	STATION	Դ Օ ԴԲԼք	TIME
5	1500.W	57741.6	02:36:02
	1475.W	57918.1	02:37:45
	1450.W	57913.7	02:38:47
	1425.W	57916.8	02:40:20
	1.400.W	57909.9	02:41:48
	1375.W	58238.9	02:43:40
	1350.W	58114.4	02:45:03
F-1	1325.W	57542.6	02:46:37
_	1300.W	57725.0	02:47:43
	1275.W	57977.2	02:50:00
أريا	1250.W	57962.6	02:51:24
	1225.W	57886.2	02:53:24
	1200.W	58027.8	02:54:59
	1175.W	57956.9	02:56:01
	1150.W	57860.2	02:57:23
	1125.W	57933.9	02:58:43
	1100.W	57902.2	02:57:49
L.1	1075.W	57901.9	03:01:18
_	1050.W	57918.5	03:02:52
	1025.W	57920.1	03:04:08
	1000.W	58045.4	03:05:22
	975.W	57838.9	03:07:03
Γ	∽ 950.W	57905.9	03:09:00
	_/ 925.W	57769.3	03:10:24
	900.W	57557.7	03:12:08
	875.W	57579.3	03:13:27
	850.W	57694.2	03:14:54
li	825.W	57726,4	03:16:12
_	800.W	57677.4	03:17:28
	775.W	57660.6	03:18:43
IJ	750.W	57639.7	03:20:16
	725.W	57642.3	03:21:25
	700.W	57580.2	03:22:55
	675.W	57606.7	03:24:08
	650.W	57727.8	03:25:35
	625.W	5//10.2	03:27:12
	600.W	37753.2	03:28:53
.	575,W	5/618.3	03:30:23
	550.W	5/527.9	03:32:01

IGSEDIT S	ummary Page	2
RID:	1. LINE	E: 400.N
STATIO	N TOT-FLD	TIME
525.1	√ 57543 . 1	03:33:47
500.0	N 57892.0	03:35:31
475.	↓ 57956.3	03:39:43
450.1	v 57466.9	03:42:31
425.1	↓ 57918.6	03:44:33
H 400.1	N 57899.9	03:46:02
375.1	√ 58044.5	03:47:38
- 350.l	57572.2	03:49:20
n 325.l	\$ 57555.0	03:50:54
300.1	J 57665.4	03:52:46
Li 275.1	√ 57763.1	03:54:19
250.0	N 57447.0	03:56:50
∏ 225.0	√ 57625.8	03:58:32
[] 200.↓	1 57673.1	04:00:25
175.0	√ 57639.7	04:01:45
L 150.V	V 57661.1	04:02:59
125.0	√ 57652.6	04:04:18
100.1	57615.7	04:05:33
75.1	√ 57673.6	04:06:59
50.0	1 57709.0	04:08:50
L 25.4	√ 57648.9	04:10:40
0.	57593.6	04:12:04

. . S. Sala.

EDITED DATA FILE ---> b:mag1.CLN

• •.

	IGSEDIT Sun	mary Page	3
	Julia:	1. LINE	E: 500.N
Π	STATION	TOT-FLD	TIME
	1500.00W	57843.7	02:26:00
	1475.OOW	57839.3	02:24:22
Π	1450.00W	57720.8	02:23:19
	1425.00W	57945.0	02:22:01
	1400.00W	57811.5	02:20:44
	1375.OOW	57930.2	02:18:59
	1350.OOW	58268.7	02:17:51
	1325.00W	58385.9	02:16:33
	1300.00W	58295.0	02:15:10
11	1275.00W	58231.3	02:13:05
	1250.00W	58035.2	02:11:44
_	1225.00W	57715.0	02:07:49
Π	1200.00W	57648.1	02:08:15
	1175.OOW	57737.9	02:06:26
	1150.00W	57758.2	02:04:59
	1125.00W	57796.0	02:02:48
	1100.00W	58014.1	02:01:33
6	1075.00W	57772.2	02:00:05
-	1050.00W	57512.3	01:58:49
	1025.00W	57397.3	01:57:37
	1000.000	57466.7	01:56:09
	975.OOW	57618.9	01:54:05
	7 950.00W	57537.7	01:52:27
	/ 925.00W	57657.8	01:51:12
_	900.00W	57653.8	01:49:38
	875.OOW	57694.5	01:48:02
	850.00W	58003.9	01:46:32
	825.00W	57886,9	01:45:26
_	800.00W	57932.8	01:35:26
Π	775.OOW	57745.6	01:34:06
	750.OOW	57795.6	01:30:06
	725.00W	57807.7	01:29:45
	700.00W	57767.2	01:28:28
	675.00W	57548.7	01:27:16
•	650.00W	57586.5	01:26:01
_	625.00W	57595.5	01:24:42
	600.00W	57702.3	01:23:12
	575.00W	57713.0	01:21:30
	550.00W	57656.4	01:20:07
Π	525.OOW	57571.4	01:18:43
U	500.00W	57543.6	01:16:46
	475.00W	57671.0	01:15:29
	450,00W	57594.9	01:13:52
	425.00W	57720.3	01:12:22
5	400,00W	57643.2	01:10:48
_	375.00W	57657.8	01:07:10
	350.00W	57777.7	01:07:43
<u></u> _	√ 325.00₩	57986.6	01:05:35
4()300.00W	57768.6	01:03:24
E.	275.00W	57752.7	01:01:43
	🥙 250.00W	57702.4	01:00:24
der 1	225.00W	57813.1	00:58:49
	200.00W	57773.5	00:56:40
	∭1 75. 00W	57663.3	00:54:30
لا مرجع	150' OOW	57676.0	00:52:28
A 8	- IN ANY THE AREA LUMBER	· 4.	

-

• ..

	3SEDIT Sum	mary Page	4
	Jup:	1. LINE	: 500.N
	STATION	TOT-FLD	TIME
R. J	125.00W	57647.0 57643 6	00:50:56
Π	75.00W	57741.1	00:48:10
	50.00W 25.00W	57754.8 57733 2	00:46:44
	0.	57980.4	00:45:14

.

[]

EDITED DATA FILE --> b:mag1.CLN

Date: December 14, 1987

File: 8711-2052



SGS SUPERVISION SERVICES INC. General Testing Laboratories Division

1001 East Pender Street, Vancouver, B.C., Canada. V6A 1W2 Telephone: (604) 254-1647 Telex: 04-507514 TO: IGNA ENGINEERING & CONSULTING LTD. 4258 West 10th Ave. Vancouver, B.C. V6R 2H4

te hereby certify that the following are the results of assays on:

soil samples (SILVER LUMP)

MARKED	GOLU	SILVER	Copper	Lead	Zinc	XXXXXXX	******	xxxx				
	Au (ppm)	Ag(ppm)	Си (ррп) Pb (ppm) Zn (ppm)						
BI OLOO NS			· · · ·	· · · · · ·	<u>× </u>	<u> </u>						
∏0+00 W	0.02	0.8	10	22	33							
	0.02	0.5	5	10	10 /							
	0.02	0.9	ך 7	19	36 (
2+00	0.03	1.0	3	76	24							
2+50	0.03	0.2	4	10	23							
3+00	0.02	0.3	6	9	23	1 -						
3+50	0.02	0.2	4	10	17	•						
1,14+00	0.02	0.8	5	13	21	` `						
4+50	0.02	0.8	8		22	\sim						
			0	12	17							
6+00		0.9	5	10	/ 16							
 50	0.02	1.2		12^{14}	23							
Ĭ	0.02	0.7	5	$\overline{12}$	22							
7+50	0.02	0.7	1-2	18 <	31							
- ⁸⁺⁰⁰	0.02	0.7 /	8	12	22							
8+50	0.03	0.5//	9		20							
L 9+00	0.02		10	15	22							
9+30	0.02		10	/ 158	33 22							
0+50	0.02	-1.0		367	82							
11+00	0.02	-0.6	12	25	25							
⊢ 1+50	/0.02	1.6	8	74	30							
2+00	0.03	0.8	5	12	18							
12+50	0.02	0.9 / /	8	15	22							
	0.02		10	457	28							
1 13+30	0.02		01	460	24 22							
- <u>≈</u> 4+00 14+50	0.02	0.6	6	944	14							
□5+00	0.03	0.6	8	179	19							
5+50	0.02	0.7	8	120	17							
16+00	0.02	1.7	6	118	22							
H ⁶⁺⁵⁰	0.03	0.8	10	32	25							
17+00	0.03	0.4	6		14		:					
17+30	0.03	0.2	9	11	²³ / c	ontinued	n nave 2					
Π						Mozindea .	, page 2					
REJECTS RETAINED ONE MONTH PULPS RETAINED THREE MONTHS. ON REQUEST PULPS												
WID REJECTS WILL BE STORE FOR A MAXIMUM OF ONE YEAR.												
ONCLUSION OR EXTRACTS FROM OR	REGARDING OU	R REPORTS IN N ERETO IS LIMIT	NT PERMITTED W	ARGED.		Von	e /					
PROVINCIAL ASSAYER												
	Analytical a	nd Consult	ing Chemists	, Bulk Cargo	Specialists, S	Surveyors, Ins	spectors_San	nplers, Weighers				

MEMBER: American Society For Testing Materials
The American Oil Chemista Society
Canadian Testing Association
REFEREE AND OR OFFICIAL CHEMISTS FOR: National Institute of Oilseed Products
OFFICIAL WEIGHMASTERS FOR: Vancouver Board Of Trade

December 15, 1987 Date: 8711-2052 File:

MARKED

_ _ _

SGS SUPERVISION SERVICES INC. **General Testing Laboratories Division**

1001 East Pender Street, Vancouver, B.C., Canada. V6A 1W2 Telephone: (604) 254-1647 Telex: 04-507514

20: IGNA ENGINEERING & CONSULTING LTD. 4258 West 10th Ave. Vancouver, B.C.

(page 2)

soil samples Ye hereby certify that the following are the results of assays on:

GOLD

SILVER Zinc Copper Lead xxxxxxxxxxxxxxxxx Au (ppm)Ag (ppm) Cu (ppm) Pb (ppm) Zn (ppm)

$\underline{BL 0+00 NS}$							
18+00 W	0.02	0.1	11	11	16		
18+50	0.03	1.5	2	13			
19+00	0.02	0.2	5	10			
19+50	0.02	0.2	16	16	17		
	0.02	0.4	10	10,			
				Ĺ			
$\bigcup \underline{L1+00 S}$							
0+50 W (A)	0.02	1.0	14	.15	24	\sim	
0+50 (B)	0.02	2.0	14	19	25		
1+00	0.02	1.2	14	/ 17	34		
1+50	0.02	1.4	17 🧹	20	47		
با ~ 50	0.02	1.0	6	14	16		
L00	0.02	1.1	14	14	26		
3+50	0.02	0.9		12	20		
4+50	0.02	1.4	$12 \\ 10$	10	20		
	0.02	2.6	10	16	17		
5+50 6+00		0.8	16	17	19		
	0.02	0.8	12	/ 18	28		
7+00	0.02	-1.7	12	12	18		
7+50	0,02	~1.0	-15-	16	33		
- 8+00	/ Ó.02	0.6	9	15	20		
8+50	0.02	1.0	16	16	21		
9+00	0.02	0.7/ /	10	16	17		
н 9+50	0.02	0.5/	12	15	19		
10+00	0.02	0.9	5	12	12		
-710+50	0.02-	-1.4	0	13	18		
	0.03	0.5	7	15	18		
12+00	0.02	0.8	5	11	18		
12+50	0.02	0.7	6	11	13		
H13+00	0.02	1.0	4	13	16]	
13+50	0.02	0.7	5	10	18		
						/ continued	on page 3
r h							Į
					Ę		
AND REJECTS WILL BE STORE FO	OR A MAXIMUM	OF ONE YEAR	IND. UN REQUEDI	FULF3	()
CONCLUSION OR EXTRACTS FROM OR	PROPERTY OF C REGARDING OU	LIENTS, PUBLIC R REPORTS IN I	ATION OF STATE-	MENTS. ITHOUT	١	L. WORD	
					······································		PROVINCIAL ASSAYER

Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers

MEMBER: American Society For Testing Materials . The American OI Chemists Society . Canadian Testing Association REFEREE AND OR OFFICIAL CHEMISTS FOR: National Institute of Oilseed Products . The American Oil Chemists' Society OFFICIAL WEIGHMASTERS FOR: Vancouver Board Of Trade

Date: December 15, 1987 File: 8711-2052

%SGS

SGS SUPERVISION SERVICES INC. General Testing Laboratories Division

1001 East Pender Street, Vancouver, B.C., Canada. V6A 1W2 Telephone: (604) 254-1647 Telex: 04-507514 TO: IGNA ENGINEERING & CONSULTING LTD.

(page 3)

*/e hereby certify that the following are the results of assays on:

soil samples

	GOLD	SILVER	Conner	Lead	Zinc	******		
MARKED	Au(ppm)	Ag(DDM)	oopper					
			Cu (ppm)	Pb (ppm)	Zn (ppm)		
<u>_L1+00_S</u>								
-4+00 W	0.02	0.7	6	11	18			
14+50	0.02	0.7	4	12	17 1			
C15+50	0.02	1.1	4	16	15			
L16+00	0.02	1.1	4	10	13			
16+50	0.02	2.1	3	10```	15			
1 7+00	0.02	1.2	9	17	231			
18+00	0.02	0.9	3	14	15	<u>``</u>		
18+50	0.02	0.5	6	30	14			
L19+00	0.02	0.8	4	.10	、19	\sim		
19+50	0.02	0.4	8	/ 15	24			
-20+00 W	0.02	0.8	4 /	/ 14	17			
			< <		/			
N OC				$\times //1$				
				\times				
0+00 W	0.02	1.1	16	15	27			
-0+50	0.02	0.9	11	17	27			
1+00	0.02	0.6//	8	\ \ 13 🗡	14			
1+50	0.02	0.2	25	118	35			·
-2+00 (A)	0.04	0.1\\	7	//12	20			
2+00	0.02	0.1	8 /	/ 11	15			
3+00	0.02	_0.2	10-//	12	28			
_3+50	0,02	0.1	11	14	22			
4+00 (A)	/ø.02	0.3	7	16	16	i		ŀ
L⊒4+00 (B)	0.02	1.5)	8	14 [29			
4+50	\Q.02	0.7//	9	10	14			
[]5+00	0.03	1.0/	10	27	41		1	
5+50	0.02-	-0.2	12	10	30	ł		
6+00	0.02	0.7	13	21	14	ĺ		
– 6+50	0.02	0.6	17	19	36			
7+00	0.02	0.7	20	23	31			
►7 ₊ 50	0.02	2.6	13	15	32	ļ		
_8+00	0.02	0.4	10	16	36	ļ	1	
8+50	0.02	0.6	17	16	23			
L ¹ 9+00	0.02	0.7	13	19	31			
9+50	0.02	0.5	9	15	38	/ continu	led on pag	e 4
								· · · · · · · · · · · · · · · · · · ·
REJECTS RETAINED ONE MONTH	PULPS RETAINS	D THREE MONT	HS. ON REQUEST	PULPS	,,,,,,		\sim	
()ND REJECTS WILL BE STORE FO	R A MAXIMUM C	OF ONE YEAR.			• (
THE PORTS ARE THE CONFIDENTIAL P المعرفي المعرفي المعرفي المعرفي	ROPERTY OF CI	LIENTS, PUBLIC	ATION OF STATE-M	ients. Thout	(<u></u> , "		
UR WRITTEN APPROVAL. ANY LIABILITY	ATTACHED THE	RETO IS LIMITE	D TO THE FEE CHA	RGED.		L. WC	mg (ppm	
······································	· ·				······		<u> </u>	

Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers

MEMBER: American Society For Testing Materials

The American Oil Chemistis Society

Canadian Testing Association

REFEREE AND OR OFFICIAL CHEMISTS FOR: National Institute of Oilseed Products

The American Oil Chemistis Society

OFFICIAL WEIGHMASTERS FOR: Vancouver Board OI Trade

SGS SUPERVISION SERVICES INC. General Testing Laboratories Division

1001 East Pender Street, Vancouver, B.C., Canada. V6A 1W2 Telephone: (604) 254-1647 Telex: 04-507514 IGNA ENGINEERING & CONSULTING LTD.

(page 4)

T0:

We hereby certify that the following are the results of assays on: soil samples

-*		GOLD	SILVER			· · · ·	<u> </u>	<u> </u>	· · · · · · · · · · · · · · · · · · ·			
	MARKED			Copper	Lead	Zinc	XXXXXXX	*****	xxxxx			
		Au (ppm)	Ag(ppm)	Cu (ppm) Ph(nnm)	Zn (nnm)						
					<u>. 1.0(ppm)</u>							
	L1+00_N											
٦	10+00 ₩	0.03	0.4	18	17	30						
	10+50	0.03	0.3	5	16	23						
1	11+00	0.02	0.2	7	11	18						
-	11+50	0.02	0.1	4	16	22 · 1						
ł	12+00	0.02	0.4	4	14	14						
1	12+50	0.02	0.2	8	10	14						
	13+00	0.02	0.5	6	16	26						
ļ	13+50	0.02	1.0	3	12 🗠	27 \						
-	14+00	0.02	0.1	8	9	20 🔨						
İ	14+50	0.02	0.3	11	_17	40	` .					
1	15+00	0.04	0.1	10	/ 12	26						
ļ				/	1							
ł	1.2+00 N											
L					11	l l						
	.200 W	0.04	0.5	50 🔪	18/	62						
1	0+50	0.02	0.3	6_	17	19						
	1+00	0.02	0.1	-6	`13	17						
ļ	1+50	0.02	0.1/	9 \`	14\	19	ŀ					
	2+00	0.02	0/1/	4 \	11	23						
ł	2+50	0.05	0.2	8	13	18						
1	3+00	0.02	0.\3\	10 🦯	20	32	Ĩ					
	3+50	0,02-	_ 0.5	15	18	21						
l	4+00	10.02	イ0 . 7 \	13	16	19						
	4+50	//0.02	0.1	12	14	33						
Į	5+00	/ 0.02	0.1	2	11	20						
1	5+50	0.02	0.j/	2	11	20						
	6+00	\0.02	0,6/	4	18	37						
	6+50	0.02	_0,5	6	16	27						
	7+00	0:02-	-0.1	3	10	1/	1					
	7+50	0.02	0.1	9	16	38						
	8+00	0.02	0.1	5	7	21		1				
	8+50	0.02	0.1	5	11	31						
ĺ	9+00 (A)	0.02	0.3	4	20	23						
	9+00 (B)	0.02	0.2	8	13	25						
	9+50	0.02	0.1	15		22	f f					
	10+00	0.02	0.3	14	15	19						
	10+50	0.02	0,1	4	11		continued	on page	5			
h												
	AND REJECTS WILL BE STORE FOR A MAXIMUM OF ONE YEAR.											
1		ROPERTY OF CL	JENTS, PUBLICA	TION OF STATE-M	ENTS	l l			[
	OUR WRITTEN APPROVAL. ANY LIABILITY	ATTACHED THE	REPORTS IN M RETO IS LIMITED	DI PERMITTED WIT	hout Rged.	<u>_</u>	L. Wong					
_					<u> </u>			PROV	INCIAL ASSAYER			
			•									

Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers

MEMBER: American Society For Testing Materials

The American Oil Chemists Society

Canadian Testing Association
REFEREE AND OR OFFICIAL CHEMISTS FOR: National Institute of Oilseed Products

OFFICIAL WEIGHMASTERS FOR: Vancouver Board Of Trade

Date: December 15, 1987 File: 8711-2052

SGS SUPERVISION SERVICES INC. **General Testing Laboratories Division**

1001 East Pender Street, Vancouver, B.C., Canada. V6A 1W2 Telephone: (604) 254-1647 Telex: 04-507514

Date: December 15, 1987 8711-2052 File:

IGNA ENCINEERING & CONSULTING T0: LTD.

(page 5)

We hereby certify that the following are the results of assays on: soil samples

		Ē	GOLD		SILVER	Co	opper	I	Lead	Z	inc	****	*****	«xxxx	٦
Π	MARKED	Lu.	(ppm)	Ag	(ppm)	Cu	(ppm)	РЪ	(ppm)	Zn	(ppm)				1
	L2+00 N													······································	-
	11+00 W 11+50 12+00 12+50 13+00 14+00		0.02 0.02 0.02 0.02 0.02 0.02		1.3 0.1 0.3 0.1 0.3 0.1		13 7 5 13 8 6		20 15 12 10 16 13		24 45 34 15 25				1
	14+50 15+00		0.02		0.1		4 8		12 8		-15				ļ
	15+00 <u>L2+00 S</u> 0+00 W 0+50 00 +50 2+00 2+50 3+00 3+50 4+00 4+50 5+00 5+50 6+00 6+50 7+00 7+50 8+00 8+50 9+50 10+00 10+50 11+00 11+50 12+00 12+50 		0.02 0.02		0.1 0.2 0.1 0.1 0.3 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1		8 86770 10678585665610 2076533376 533376 0 M REQUEST	PULP	8 14 14 14 14 14 12 14 12 14 16 19 20 21 14 17 21 9 18 11 15 14 12 14 15 14 12 14 15 14 12 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 15 16 15 15 15 15 15 15 15 15 15 15		20 23 19 77 16 21 18 29 13 23 19 77 16 21 18 29 13 25 78 26 26 33 16	/ conti . Wong	nued on p	аge б	
ာ	······	 1 m	ahticel e	nd	Consulti	ina C	hamiete	Bul	k Cerao	Sne	cialiete 9	Surveyore Inc	pectors Sam	Inicial Assayer	1
\Box	,	~~~	ayuvai a	u i Qî	ME REF	MBER: EREE /	American S WD OR OFF	ciety CIAL (For Testing I CHEMISTS F	Materi OR: N	ials ● The An ational Institu	nerican Oil Chemia te of Oilaged Produ	is Society ● Canad Incta ● The America	ian Testing Associatio n Oil Chamists' Social	э n b

MEMBER: American Society For Testing Materials

The American Oil Chemista Society

Canadian Testing Association REFEREE AND OR OFFICIAL CHEMISTS FOR: National Institute of Oilseed Products . The American Oil Chemists' Society OFFICIAL WEIGHMASTERS FOR: Vancouver Board Of Trade

December 15, 1987 Date: 8711-2052 File:

SGS SUPERVISION SERVICES INC. **General Testing Laboratories Division**

1001 East Pender Street, Vancouver, B.C., Canada. V6A 1W2 Telephone: (604) 254-1647 Telex: 04-507514

JO:	IGNA	ENGINEERING	&	CONSULTING
	Ll	D.		

(page 6)

We hereby certify that the following are the results of assays on:

soil samples

ľ	<u> </u>	GOLD	SILVER	Copper	Lead	Zinc	xxxxxx	******	xxxxxx
لم	MARKED	Au (ppm)	Ag (ppm) Cu (ppn) Pb(ppm)	Zn (ppm)			
	<u>L2+00 S</u>								
	13+00 W 13+50 14+00 14+50 15+00 15+50 16+00 16+50 17+00 17+50 (A) 17+50 (B) 18+00 18+50 +00 L3+00 N	0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02	6.9 0.1 0.1 0.5 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	9 5 9 8 7 5 8 9 5 7 4 8 4 5	11 7 17 16 18 17 19 15 16 6 21 15 20	$ \begin{array}{c} 30\\ 10\\ 13\\ 17\\ 24\\ 19\\ -21\\ 17\\ 20\\ 14\\ 10\\ 32\\ 12\\ $			
	0+00 W 0+50 1+00 1+50 2+00 2+50 3+00 3+50 4+00 4+50 5+00 5+50 6+00 6+50 7+00 7+50 8+00 8+50 8+00 8+50	0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02	0.5 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	24 6 4 5 6 9 10 5 6 12 8 5 7 6 12 8 5 7 6 8 13 3 8 13 3 8	27 21 22 13 25 12 23 15 23 15 23 18 15 20 26 22 6 22 6 22 6 26 22 6 26 22 6 26 22 6 26 2	50 24 18 15 28 36 37 20 24 25 30 25 36 30 31 33 44 32	/ contin	ied on pag	e 7
	A	nalytical a	nd Consultii	ng Chemists,	Bulk Cargo S	Specialists, S	urveyors, Ins	pectors, Sam	plers, Weighers
			MEN REFE	REE AND OR OFFI	ICIAL CHEMISTS FO	naterials The Am DR: National Institut	erican Oil Chemist e of Oilseed Produ	s society Canadi cts The American	an Testing Association • Oil Chemists' Society

als . The American Oil Chemists Society . Canadian Testing Association iety For Testing N REFEREE AND OR OFFICIAL CHEMISTS FOR: National Institute of Disseed Products . The American OI Chemists' Society OFFICIAL WEIGHMASTERS FOR: Vancouver Board Of Trade

Date: December 154, 1987

File: 8711-2052

SGS SUPERVISION SERVICES INC. **General Testing Laboratories Division**

1001 East Pender Street, Vancouver, B.C., Canada. V6A 1W2 Telephone: (604) 254-1647 Telex: 04-507514

IGNA ENGINEERING & CONSULTING LTD.

(page 7)

Ye hereby certify that the following are the results of assays on: soil samples

	രവം	SILVER	Copper	Lead	Zinc	xxxxx	xxxxxxxx	xxxxx
MARKED	Au (ppm)	Ag(ppm)	Cu (%)	Pb (%)	Sn (%)		<u> </u>	
9+00 W	0.02	0.5	5	35	44			
⁻¹ 9+50	0.02	0.5	13	37	28			
10+00	0.02	0.4	20	21	44		-	
0+50	0.02	0.1	10	28	32			
-i1+00	0.02	0.1	8	25	33			
11+50	0.02	0.1	8	18	16			
2+00	0.02	0.1	8	24 -				
12+50	0.03	0.1	10	22	29			
13+00	0.04	0.1	8	23	26			
-3+50	0.04	0.1	18	/39	28			
14+00 14-50	0.02	0,1	12	/ 37	20		:	
14+50	0.02	0.1		35	23			
	0.02	0.2	9		21			
/ ~'\1109				\sim				
<u>LJT005</u>			$\langle \cdot \rangle$					
¯)+00 ₩	0.02	0.1	6	15	18			
J+50	0.02	0.1//	6	\\ <u>19</u>	20			
1+00	0.02	0.1	6	15	21			
1 +50	0.02	0.1\\	5	// 15	19			
<u>}+00</u>	0.02	0.1	3 /	/ 17	18			
2 + 50	0.02	Ò.1	2-1	16	20			
3+00	0,02	0.1	3	15	18			
+50	0/.02	0.1	6	17	20			
4+00	0.02	0.1 }	4	10	16			
4+50	0102	0.2//	13	19	96			
\+00	0.02	0.1'	9	25	39	ĺ	ļ	
J+50	0.02	0.1	9	20	20			
		0.1	2	20	27			
00+50		0.1	9	15	16			
1700 7±50			2	10	17			
7+30 8±00			10	30	122			
450		0.1	10	63	102		1	
3+00	0.02	0.1	7	28	57			
9+50	0.02	0.4	20	25	62	, .		
1			2.0			/ continu	ed on pag	e 8
REJECTS RETAINED ONE MONT	H. PULPS RETAINS	D THREE MONT	HS. ON REQUEST	PULPS	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		>	
AND REJECTS WILL BE STORE	FOR A MAXIMUM	OF ONE YEAR			,	-		l
AL-MEPORTS ARE THE CONFIDENTIAL ONCLUSION OR EXTRACTS FROM OF	PROPERTY OF C	LIENTS PUBLIC	ATION OF STATE-M	ients. Thout	\ ₁	Nong		
OUR WRITTEN APPROVAL, ANY LIABLY	TY ATTACHED THE	RETOISLIMITE	D TO THE FEE CHA	RGED.	V	- nong		
,, <u></u>							HRO	VINCIAL ASSAYER

TO:

Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers

MEMBER: American Society For Testing Materials . The American Oil Chemists Society . Canadian Testing Association REFEREE AND OR OFFICIAL CHEMISTS FOR: National Institute of Obseed Products . The American Oil Chemists' Society OFFICIAL WEIGHMASTERS FOR: Vancouver Board Of Trade ٠



Date: December 15, 1987

OFFICIAL WEIGHMASTERS FOR. Vancouver Board Of Trade

File: 8711-2052

SGS SUPERVISION SERVICES INC. General Testing Laboratories Division

1001 East Pender Street, Vancouver, B.C., Canada. V6A 1W2 Telephone: (604) 254-1647 Telex: 04-507514 TO: IGNA ENGINEERING & CONSULTING LTD.

(page 8)

We hereby certify that the following are the results of assays on:

soil samples

ſ		GOLD	SILVER	Copper	Lead	Zinc	*****
Ц	MARKED	Au(ppm)	Ag(ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm	
Ļ						<u></u>	
	<u>L3+005</u>						
Ч	10+00 ₩ 10+50	0.02	0.1	9 10	17 32	38 / 71 (.	
H	11+00 11+50	0.02	0.1	5 8	18 17 · ·	37	
Ч	12+00 12+50	0.02	0.3	10 10	22 24	32 '	
4	13+00	0.03	0.1	8	27	21	
Ц	14+00	0.02	1.0	9	23	35	
	14+50 15+00	0.02	0.2	10	19) 34 38	
		0.02	0.1 0.1	8		24 14	
	16+50 17+00	0.03	0.1	3	20	14 16	
	17+50	0.03	0.3	4		28	
	18+50	0.02	q.7	8	28	17	
Ц	19+00 19+50	0.02	0.3		23 20	18 33	
Ч	L4+00 N						
Ц	0+00 W	0.02	0.4	20	24	30	
Ч	0+50	0.02	0.6	14 12	22 21	28 30	
L	1+50	0.02	0.3	19	18	20	
Ч	2+00 2+50	0.02	0.2	13 12	17	55 19	
Ч	3+00 3+50	0.02	0.4 0.2	12 12	31 23	37 32	
Π	4+00	0.06	0.4	12 9	16 20	22 40	
Ч	5+00	0.02	0.4	11	23	35	(continued on page 0
Ľ	· · · · · ·						Concruted on base à
ľ	TE: REJECTS RETAINED ONE MONTH AND REJECTS WILL BE STORE FO	PULPS RETAIN	ED THREE MON OF ONE YEAR.	THS ON REQUEST	PULPS		
Ľ	VAL REPORTS ARE THE CONFIDENTIAL I CONCLUSION OR EXTRACTS FROM OR I OUR WRITTEN APPROVAL ANY LIABILITY	MOHENTY OF C REGARDING OU ATTACHED TH	ELENTS, PUBLIC A REPORTS IN N ERETO IS LIMITE	ATION OF STATE-N HOT PERMITTED WI ED TO THE FEE CH/	AENIS. THOUT VRGED.		L. Wong
	·····	Analytical a	nd Consult	ing Chemists	Bulk Cargo	Specialists, S	Surveyors, Inspectors, Samplers, Weighers
Π		•	ML REF	MBER: American S EREE AND OR OFF	ociety For Testing N ICIAL CHEMISTS FO	daterials € The Ar XR. National Institu	nerican Oil Chemista Society Canadian Testing Association te of Oilseed Products The American Oil Chemists' Society

Date: December 15, 1987

File: 8711-2052

SGS SUPERVISION SERVICES INC. **General Testing Laboratories Division**

1001 East Pender Street, Vancouver, B.C., Canada. V6A 1W2 Telephone: (604) 254-1647 Telex: 04-507514

IGNA ENGINEERING & CONSULTING TO: LTD.

(page 9)

We hereby certify that the following are the results of assays on:

soil samples

٦	· · ·	GOLD	SILVER	Copper	Lead	Zinc	xxxxx	*****	xxxx			
Ц	MARKED	Au (ppm)	Ag(ppm)	Cu (%)	Pb (%)	Zn (%)						
	MARKED <u>L4 +00N</u> 5+50 W 6+00 6+50 7+00 7+50 8+00 8+50 9+00 9+50 10+00 10+50 11+00 1+50 -22+00 12+50 13+00 13+50 14+00 14+50 15+00 <u>L4+00S</u> 0+00W 0+50 1+00 1+50 2+50 0+00W 0+50 1+00 0+00W	GOLD Au (ppm) 0.02	SALVER Ag(ppm) 0.8 0.5 0.9 0.9 0.9 0.9 0.7 0.3 0.2 0.4 0.4 0.2 0.1 0.5 0.5 1.0 0.3 0.2 0.1 22 0.1 22 0.6 0.6 0.6 0.6 0.6 0.7	Copper Cu (%) 12 13 18 19 13 11 12 12 35 21 13 19 18 29 13 12 17 19 15 11 14 15 13 13 13 13 13	Lead Pb (%) 23 20 26 25 35 23 20 23 32 20 23 32 20 23 32 20 23 32 20 23 32 20 23 32 20 23 32 20 23 32 20 23 32 20 23 32 20 23 32 20 23 32 20 23 32 20 23 32 20 23 32 20 23 23 20 23 23 20 23 20 23 23 20 23 20 23 23 20 23 23 20 23 23 20 23 23 20 23 23 23 23 20 23 23 23 23 23 23 23 23 23 23	Zinc Zn (%) 26 25 45 40 39 30 50 24 28 105 20 40 28 30 31 15 20 40 28 30 31 15 20 24 28 30 31 15 20 22 34 13 28 27 26 38 30	XXXXX		XXXX			
	2+00 2+50 3+00 3+50 4+00 4+50	0.02 0.02 0.02 0.02 0.02 0.02	0.7 0.6 1.0 0.5 1.0	13 6 17 19 13	11 9 13 21 9	29 26 23 35 16						
	5+00	0.02	1.2	6	13	21	/ contin	ued on pa	ge 10			
	TE: REJECTS RETAINED ONE MONTH, PULPS RETAINED THREE MONTHS. ON REQUEST PULPS AND REJECTS WILL BE STORE FOR A MAXIMUM OF ONE YEAR.											
Ľ	OUR WRITTEN APPROVAL. ANY LABLITY ATTACHED THERETO IS LIMITED TO THE FEE CHARGED											
Γ	Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers MEMBER: American Society For Testing Materials • The American Oil Chemists Society • Canadian Testing Association REFEREE AND OR OFFICIAL CHEMISTS FOR: National Institute of Diseased Parchices • The American Oil Chemistry Oil Chemistry											

MEMBER: American Society For Testing Materials

The American Oil Chemists Society

Canadian Testing Association
REFEREE AND OR OFFICIAL CHEMISTS FOR: National Institute of Oliseed Products

The American Oil Chemists' Society OFFICIAL, WEIGHMASTERS FOR: Vancouver Board Of Trade

Date: December 15, 1987

File: 8711-2052

SGS SUPERVISION SERVICES INC. General Testing Laboratories Division

1001 East Pender Street, Vancouver, B.C., Canada. V6A 1W2 Telephone: (604) 254-1647 Telex: 04-507514 TO: IGNA ENGINEERING & CONSULTING LTD.

(page 10)

/e hereby certify that the following are the results of assays on: soil samples

	GOLD	SILVER	Copper	Lead	Zinc	xxxxxxx	xxxxxxxxx	XXXXXXXXX
MARKED	Au (nnm	Aa (nnm						
	wa (hhm	uR (hhm	<u>'Cu (ppm)</u>	Pb(ppm)	<u>Zn (ppm)</u>			
<u>L4+00 S</u>								
	0.00		•					
↓ 5+50 W	0.02	1.3	8	20	24		!	
		1.3	14	24				
		0.0	10	15	12			
	0.02	0.8	15	22	24			
8:00		0.0	10	20 .	07			
8,50		0.5	25	30 37 4		L i		
- 9+00		0.0	20	31	100			
9+50		1.0	15	48	187			
	0.02	0.8	18	/4	196	\sim		
-10+50	0.02	0.6	19	34.) 71			
11+00	0.02	0.5	17 / 4	32	/ 84			
50	0.02	0.7	31		70			
0	0.02	0.9	23	21/	71			
12+50	0.02	·0.6	23	28	70			
-13+00	0.02	0.6	21	25	50			
13+50	0.02	1.0/	18	∖ 30 ∕∕	37			
~·14+00	0.02	0.2	16	19	39			
14+50	0.02	1.0	14	26	43		ĺ	
15+00	0.02	0.7、\	18	/ 31	130			
L-15+50	0.02	$>$ 0.5 \		24	53			
16+00	0.02	0.4	-21	26	38			
16+50	/0.02	0.3	13	19	34			
L17+00	0.02	0.6	12	24	33			ł
1/+50		0.6	12	26	50			
	0.02	0.0	13	22	30			
	0.02		10	24	51	1		
19+00	0.02	0.5	17	24	35			
$\Gamma_{20\pm00}$ W	0.02	1 2	12	22	15			
	0.02	1.2	12	22	10			
L5 +00N					Ì			
				.				
0+00 ₩	0.02	0.8	12	34	58			
-0+50	0.02	1.2	20	2/	48			
1+00	0.02	0.9	00	35	78	1	nund an -	aa 11
۱ <u>۲</u>	l	<u>l</u>				/ conci		186 TT
REJECTS RETAINED ONE MONTH	PULPS RETAINE		HS. ON REQUEST I	PULPS		\sim		
PORTS ARE THE CONFIDENTIAL P	ROPERTY OF CL	JENTS, PUBLICA	TION OF STATE-M	ENTS		(\mathcal{T})	-)	
ONCLUSION OR EXTRACTS FROM OR R UR WRITTEN APPROVAL ANY LIABILITY	EGARDING OUR	REPORTS IN NO	OT PERMITTED WIT	HOUT		L. Wong		
<u>L </u>							PRO	VINCIAL ASSAYER

Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers

MEMBER: American Society For Testing Materials

The American OI Chemists Society

Canadian Testing Association
REFEREE AND OR OFFICIAL CHEMISTS FOR: National Institute of Oilseed Products

The American OI Chemists' Society
OFFICIAL WEIGHMASTERS FOR: Vancouver Board Of Trade



Date: December 15, 1987

File: 8711-2052

SGS SUPERVISION SERVICES INC. General Testing Laboratories Division

1001 East Pender Street, Vancouver, B.C., Canada. V6A 1W2 Telephone: (604) 254-1647 Telex: 04-507514 TO: IGNA ENGINEERING & CONSULTING LTD.

(page 11)

We hereby certify that the following are the results of assays on: soil samples

		GOLD	SILVER					1	
	MARKED			Copper	Lead	Zinc	xxxxxxx	*****	*****
	MANEY	ми (ррш)Y8(bbm)	Cu (ppm)	Pb(ppm)	Zn (ppm))		
	· -		· · · ·		·•• •		·		
	15.00 N								
	13+00 N								
İ	1.50 U	0.00	<u> </u>	<u>0</u> 7	20				
4	1+30 W	0.02	0.4	24	33	51			
	2+00	0.02	0.4	26	39	53			
	2+50	0.02	0.6	26	29	69			
	3+00	0.02	0.8	19	35	35			
•	3+ 50	0.02	1.4	18	25	50			
	4+00	0.02	1.0	24	33	78			
11	4+50	0.02	0.9	24	37	88 - \			
Ц	5+00	0.02	0.7	13	27	43			
	5+50	0.02	1.0	18	> 39~	44	\sim		
	6+00	0.02	0.7	24	35 \	41	v		
	6+50	0.02	0.3	17 /	28	36			
	7+00	0.02	0.8	20	27 //	41			
ل_	~ 7+50	0.02	0.6	23	34/	78			
{	8+00	0.02	0.9	$\overline{22}$	/29	49			
L	8+50	0.02	1.6	<u> </u>	30	77			
	9+00	0.02	0.6		55	65			
	9450	0.03	1/0/	22	3.	24			
	10,00	0.05	7.6	26	24~	24 70			
	10+00	0.04		50	33	42			
	15,00 8		ίl.	1	r '				
	<u>L)+00 3</u>			/					
Ч	0.00 1	000	2 0 7		20				
	0+00 W	0.02	0.7	20	33	55			
	0450	/0.02	0.8	18	48	66			
	1+00	0.02	1 (1)	18	34	42			
	1+50	0.03	1,0	24	42	50			
	2+00	0.02	0/.5	15	13	60			
1	2+50	0.02	0.6	12	17	48			
L	3+00	0:02	0.4	4	7	52			
	3+50	0.02	2.0	18	30	28			
	4+00	0.02	0.5	14	21	26			
넵	4+50	0.02	0.2	14	21	24			
	5+00	0.02	0.1	18	22	33			
	5+50	0.02	0.4	16	20	26			
	6+00	0.02	0,2	16	27	33			
Ч	6+50	0.02	0.4	16	27	41			
	-						/ conti	ued on pa	ee 12
							, conci		0
LI	DIE- DE LECTS BETAINED ONE MONTH		ED THREE MON		PULES			$\overline{}$	
(AND REJECTS WILL BE STORE FO	MUMIXAM A RC	OF ONE YEAR						
n ì	ALL REPORTS ARE THE CONFIDENTIAL	ROPERTY OF C	LIENTS, PUBLIC	ATION OF STATE	MENTS	(
	OUR WRITTEN APPROVAL, ANY LIABILITY	ATTACHED TH	ERETO IS LIMITE	D TO THE FEE CH	ARGED	I . W	м <u>е</u>		
b	· · · · ·								VINGIAL ASSATEH
→		Analytical a	nd Consult	ing Chemists	, Bulk Cargo	Specialists, S	Surveyors, Ins	spectors, San	nplers, Weighers

MEMBER: American Society For Testing Materials

The American Oil Chemista Society

Canadian Testing Association

REFEREE AND OR OFFICIAL CHEMISTS FOR: National Institute of Oilseed Products

The American Oil Chemista' Society

OFFICIAL WEIGHMASTERS FOR: Vancouver Board Of Trade

Date: December 15, 1987

File: 8711-2052

SGS 0

SGS SUPERVISION SERVICES INC. General Testing Laboratories Division

1001 East Pender Street, Vancouver, B.C., Canada. V6A 1W2 Telephone: (604) 254-1647 Telex: 04-507514 TO: IGNA ENGINEERING & CONSULTING Ltd.

(page 12)

Ve hereby certify that the following are the results of assays on:

soil: samples

		GOLD	SILVER	Copper	Lead	Zinc	XXXXXX	*******	XXXXX	
ľ	MARKED	Au(ppm)	Ag(ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)				
	<u>L5+00 S</u>									
Г	7+00 ₩	0.02	0.4	32	41	81				
	7+50	0.02	0.9	25	36	46				
	8+00	0.02	1.6	40	30	77				
h	8+50	0.02	1.8	27	32	89				
	9+00	0.02	0.5	24	30	58				
1	9+50	0.02	1.0	24	52	154				
Ъ,	10+00	0.02	0.6	16	8	- 143				
	10+50	0.02	0.9	27	48	95	` ,			
h	11+00	0.02	0.5	18	18	114	•			
	11+50	0.02	0.9	56	39	94				
П	12+00	0.02	0.3	26	25	66				
ų	12+00	0.02	0.5	25	28	65				
	13+00	0.02	1.3	45	33	87				
1	3+50	0.02	0.5	14	23	35				
1_	-14+00	0.02	0.2	19	25	45				
Ī	14+50	0.02	0.3	-20	25	46				
Н	15+00	0.02	0.5	20	27	65				
11	15+50	0.02	1.0/	26	30	69				
누	16+00	0.02	0.8/	20	23	37				
	16+50	0.02	0.9	20	. 33	27				
Π	17+00	0.02	0.4	18	33	38				
ĻJ	17+50	0.02-	~0.9	18	27	28				
	18+00	0.02	0.7	20	21	22			,	
	18+50	0.02	0.9.	27	34	31				
	19+00	0.02	1.2	22	33	43				
	19+50	0.02	ī.ī//	26	56	35				
Ь	20100	$\sqrt{0.02}$	0.3	16	19	20			ļ	
11	20100									
Ī	<u>6+00 S</u>				,					
Π		0 02	0.2	3/	32	62				
\square		0.02	1 3	24	74	133				
	1,00 (B)	0.02	0.5	16	52	48				
h	1,50		0.5	13	25	36				
	2,00		1 1	23	50	54				
Γ	2+00	0.02	2 0	25	25	46				
L	2+50	0.02	2.0		2.5	· · · /	continued	on page	13	
					l	· · · · · · · · · · · · · · · · · · ·				
	AND REJECTS WILL BE STORE FOR A MAXIMUM OF ONE YEAR									
	VIL: REPORTS ARE THE CONFIDENTIAL P XONCLUSION OR EXTRACTS FROM OR R XUR WRITTEN APPROVAL, ANY LIABILITY	ROPERTY OF CL EGARDING OUR ATTACHED THE	JENTS PUBLICA REPORTS IN NO	ATION OF STATE-M OT PERMITTED WIT D TO THE FEE CHA	ents. 'Hout Rged.	т	0.00	2		
PROVINCIAL ASSAYER										

Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers

MEMBER: American Society For Testing Materials

The American Oil Chemiata Society

Canadian Testing Association REFEREE AND OR OFFICIAL CHEMISTS FOR: National Institute of Oilseed Products

The American Oil Chemists' Society OFFICIAL WEIGHMASTERS FOR: Vancouver Board OI Trade
CERTIFICATE OF ASSAY

December 15, 1987 Date:

8711--2052 File:

SGS SUPERVISION SERVICES INC. **General Testing Laboratories Division**

1001 East Pender Street, Vancouver, B.C., Canada. V6A 1W2 Telephone: (604) 254-1647 Telex: 04-507514

TO: **IGNA ENGINEERING & CONSULTING** LTD.

(page 13)

We hereby certify that the following are the results of assays on: soil samples

Ĩ			GOLD	SILVER	SILVER					
	. M	ARKED		1	Copper	Lead	Zinc	XXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX
Γ]	1	Au (ppm)	Ag(ppm)		Ph (nnm)	Zn (nnm)			
L				 						
	2004 31			1						
ام ا	1									
	1 2.00	7.1	0.02	0.6	2/	1.2	27			
L] 3+00	W	0.02		24	45	51			
- [3+50		0.02	0./	22	30	44			
Ľ	1 4+00		0.02	0.8	17	27	27,			
i	4+50		0.02	0.3	13	20	27 <u>)</u>			
٦Ī	' 5+00		0.02	0.2	17	22	30;			
	. 5+50		0.02	0.2	18	21	46			
Г	6+00		0.02	0.3	25	32	54			
Ι.	6+50		0.02	0.5	29	34	58			
	7,00		0.02		23	30	40	`		
┙	7+00		0.02	1 6	60	50 40	120			
	7+50		0.02		09	40	120			
Ĺ	1 8+00		0.02	0.2	24	20 .) 59			
Į	8+50		0.02	0.2	29	27	50			
Ľ			0.02	0.4	20	32,	150			
	_/ 9+50		0.02	0.2	17	18	118			
٦	10+00 °		0.02	0.9	20	40	79			
	. 10+50		0.03	0.5/	- 23 、	28	92			
Γ	11+00		0.02	0.6	36 `	39 [,]	101			
L	11+50		0.02	1/.3	64	. 35	118			
	12+00		0.02	0.2	18	12	19			
┢┙	12,00		0.02	0.5		/ 13	23			
	12+50		0.02	0.6	27.	27	53			
٦	12,50		0.02		~ 26	27	40			
	13+50		0.02		~ 20	20	49			
Г			0.02	0.0	17	22	30			
	14+50	í	/0.03	0.71	10	22	25			
	15 + 00	i	1 0.02	1.0	25	30	45			
႕	, 15+50		0.02	1/.6	23	35	53			
1	16+00		0.02	0.8	26	24	37			
۰Ļ	16+50		0.02	0.9	22	34	78			
ł	17+00		0.02	0.3	13	20	22			
	17+50		0.02	0.7	17	19	38			
	18+00		0.02	1.6	27	29	57			
٦	18+50		0.02	0.8	29	30	45			
1	10,00	()	0.02	0.8	29	25	35			
	10,00	(1)	0.02	0.0 n s	27	23	70			
١,	10.50	(D)	0.04		24 26	24	40 22			
	19+50		0.02		20	20	22	1.1		7/
Ľ	20400		0.02	0.4	18	18	20	/ cq	ntinuea o	n page 14
	<u></u>		L	lI	I					
٦		RETAINED ONE MONTH	PULPS RETAIN	ED THREE MON	THS ON REQUEST	PULPS				
	AND REJEC	CTS WILL BE STORE FO	OR A MAXIMUM	OF ONE YEAR				\bigwedge		
Γ	ALL REPORTS AR	E THE CONFIDENTIAL I	PROPERTY OF C REGARDING OU	R REPORTS IN N	ATION OF STATE-	THOUT		Wong	/	
L	OUR WRITTEN AP	PROVAL. ANY LIABILITY	Y ATTACHED TH	ERETO IS LIMITE	D TO THE FEE CH/	HGED.		A nong		VINCIAL ASSAVER
L	· · · · · · · · · · · · · · · · · · ·		• • • •				.			
	}	,	Analytical a	and Consult	ing Chemists,	, Bulk Cargo	Specialists, S	iurveyors, Ins	pectors, San	nplers, Weighers
				Mi	MBER: American S	ociety For Testing I	Materiais The An	erican Oil Chemis	Is Society . Canad	lian Testing Association
				ner	LILE AND ON OFF	IONE OREMISIS F	Gen. 1948(00)480 875(([[])	A OI ORSGEO LIOOU		

MEMBER: American Society For Testing Materials . The American Oil Chemists Society . Canadian Testing Association REFEREE AND OR OFFICIAL CHEMISTS FOR: National Institute of Oilseed Products . The American Oil Chemista' Society OFFICIAL WEIGHMASTERS FOR: Vancouver Board Of Trade

CERTIFICATE OF ASSAY

SGS SUPERVISION SERVICES INC.

General Testing Laboratories Division

1001 East Pender Street, Vancouver, B.C., Canada. V6A 1W2 Telephone: (604) 254-1647 Telex 04-507514

.

L

ł

MEMBER: American Society For Testing Materials

The American Oil Chemists Society

Canadian Testing Association REFEREE AND OR OFFICIAL CHEMISTS FOR: National institute of Oilseed Products . The American Oil Chemists' Society OFFICIAL WEIGHMASTERS FOR: Vancouver Board Of Trade

hereby certify that the	following are the results of	assays on:	soil s	amples		
	GOLD SILVER	Copper	Lead	Zinc	xxxxxx	*****
MARKED	Au (ppm)Ag(ppm)	Cu (%)	Pb (%)	Zn (%)		
2 +00 S +00 +50 2+00 2+50 3+00 3+50 (A) 3+50 (B) +00 5+00 5+00 5+00 5+00 5+00 5+00 5+00	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	25 30 26 32 39 20 17 25 26 16 17 15 38 15 -28 22 29 22 23 50 22	24 33 22 30 27 15 29 32 18 24 20 31 12 24 25 40 27 34 42 22	69 59 54 113 55 82 -26 39 55 34 34 30 52 25 40 46 102 41 71 124 28		
					لر	
REJECTS RETAINED ONE MO AND REJECTS WILL BE STO	ONTH. PULPS RETAINED THREE MONT RE FOR A MAXIMUM OF ONE YEAR.	HS ON REQUEST	PULPS			,
REPORTS ARE THE CONFIDEN	TIAL PROPERTY OF CLIENTS PUBLIC. A OR REGARDING OUR REPORTS IN N	ATION OF STATE-N OT PERMITTED WI	AENTS. THOUT	Ţ	Wong	/

File: 8711-2052

TO: **IGNA ENGINEERING & CONSULTING** LTD.



N.T.S PLOT

·····		
i		
Ę		
Ν		
I		
CONTEUR	INTERVAL	
0.2 PPM (BE	LOW 1.0 PPM)	
IU PPM (ABL (MAXIMUM CENTEU)	R SHOWN 5.0 PPM	
TICKS SIGNIFY ARE	TAS BELLIM 0'S HAW	
	1,5000	
SUALE		
	0 200 300	
e e e e e e MET	ERS	
nen i en franzen angen an an		
	Y REPORT BY	
I, BOROV	IC, P.ENG.	i i
sti ver lum	P PROPERTY	-
FURI GRAZINA N	RESTORCES LID.	
IGNA ENGINEERING	AND CONSULTING LTD.	
PLUITED BY: AND COMPUTER	KEM MAPPING SERVICES LTD.	
CUTI (CEU)	HEMISTRY 2	
	VFR	
012		
VERNON	M.D., B.C.	
SI 82E-15E, 82E-16W	DATE: JANUARY 1988	
ITTED BY R.P.M.	FIGURE NO. 14	ł





\square	
· · · · · · · · · · · · · · · · · · ·	
	R INTERVAL
TO PPM (BE 50 PPM (AI	LUV 100 PPM) BOVE 100 PPM)
TICKS SIGNIFY A	REAS BELOW 20 PPM
100 0 1	
ABRANCH	
NT REPORT	
	ILNJ
レント	
DLU	
	IC, P.ENG.
ILVER LUM	IP PROPERTY
FOR: GRAZINA I	RESOURCES LTD.
IGNA ENGINEERIN	AND CONSULTING LTD.
PLOTTED BY:	RPM MAPPING
KEALISI Soii geni	CHEMISTRY
ZI	NC 72
VERNON 82E-15E 82E-16V	M.D., B.C.
ED BY R.P.M.	FIGURE NEI. 16



Station DE Station 50V Station 50V Station 100V Station 200V Station 200V Station 200V Station 300V Station 300V Station 400V Station 500V Station 500V Station 500V Station 500V		
33 35 36 37 37 38 38 39 39 39 39 39 39 39 39 39 39 39 39 39	Line 500N	
4 53 23 2 2 2 2 2 2 2 2 2 2	Line 40CN	
	Line 300N	CONTOUR INTERVAL BELOW 100 PPM: 10 PPM ABOVE 100 PPM: 100 PPM
	Line 200N	HIGHEST CONTOUR SHOWN: 500 PPM
	Line 100N	TICKS SIGNIEY AREAS BELOW 10 PPM
	Line CN	SCALE 1:5000
	Line 100S	
	Line 2005	GEOLOGICAL BRANCH ASSESSMENT REPORTETERS
	Line 300S	17.526
	Line 400S	TU ACCUMPANY REPORT BY I. BOROVIC, P.ENG. SILVER LUMP PROPERTY
	Line 500\$	FOR: GRAZINA RESOURCES LTD.
	Line 600S	BY: IGNA ENGINEERING AND CONSULTING LTD. PLOTTED BY: RPM MAPPING AND COMPUTER SERVICES LTD.
;	Line 708\$	REALISTIC GRID SOIL GEOCHEMISTRY LEAD
		VERNON M.D., B.C.
·		PLOTTED BY R.P.M. FIGURE NO. 15

Station DE Station SOV Station SOV Station 150V Station 250V Station 250V Station 350V Station 250V Station 250V Station 350V Station 150V	
	BASE VALUE, 57250 CAMMAS
	HIGHEST CONTOUR: 1500 GAMMAS
Line ON	SCALE 1:5000
	GEOLOGICAL BRANCH ASSESSMENT REPORT METERS
	17,526 TO ACCOMPANY REPORT BY:
	SILVER LUMP PROPERTY
1 1	REALISTIC GRID
	FIELD STRENGTH VERNON M.D., B.C. N.T.S. 82E-15E, 82E-16V DATE: JANUARY 1988 PLOTTED BY R.P.M. FIGURE NO. 9





Static Statio Statio Station Station Statio Station Station Statio Station Statio Station Station tatio tatio tatio tatio tation itatio ta t tati 700V 750V 800V 900V 900V 900V 100V 100V 1200V 1200V 1200V 1300V 1400V 1500V 1500V 1600V 1900 W 1950 W 2000 W 1750W 1800W 1850W 80.0 90.0 0.02 0.02 0.02 C, C 4 0.02 0.02 0.02 0.02 0.02 0.02 50.0 50.0 50.0 50.0 0.02 0.02 0.02 20.02 20.02 20.02 2015 2010 2010 2010 20.2 20.2 0.02 20.0 20.0 2010 0.02 0.02 0.03 0.02 80.0 80.0 20.0 50.0 20.0 20.0 20.0 20.0 20.0 0.02 0.02 20'0 20'0 20'0 0.02 0.02 0.02 20'0 20'0 0.02

, - 1, 1, 2				:	et este mensen en este de la companya de la companya de la companya de la companya de la companya de la company	<u>~~_</u>				121	F				
Station 650W	Station 600W	Station 500V	Station 450W	Station 400W	Station 350V	Station 300V	Station 200W	Station 150W	Station 100W	Station 50W -	Station OE				
			1	 					1	F F	Ì				
0.02	20.0	າ.ຄະ	0.02	30.00		20.0 2010	0.02	0, 0 ,2	C.02	0.02	0.02	Line 500N			
ξ _υ		7 <u>1</u> 8 N	0.7 N/ 1	19/1		ວ. ບ.ດ. ເຊິ່ນ ເຊິ່ງ ເຊິ່ງ	0.02	302	2.02 202	502 502	Ú.C.2	the 400N]V	1
20.02	0,02 0.02	0.02 5.02 7	0.02	0.02	50,0	2010 2010	çr ⁰ 2012	C.02	0.J2	300	0.02	L'ne 300N	GOLD VAL	UES IN PPM	
0.02	20,0 70,0	50.0	50.02	0.02	3.02	20.0 50.0	35	20'0	30'0	20'0 	0.0	Line 200N	CONTOUR 0.01 PPM (FROM A	EINTER∨AL BASE OF 0.005 PPM)	
20.0	0.02	£0.0	20.0	800 800 800	0.02	e C	20.0 12 20.0 14 040	0,02	0.02	0.02	-0.02 22	Line 100N			
0.02	50,0 10,0 10,0	So D	3, 32	30.C	0.02	0.03	C.3		0,03	3.02	C.02	Line ON	VALUES ABUV IN LAR	GER TEXT	
0.02	20.0	0.02	ර,02	:	20 C	20.0 20.0		コ.02	C.02	2010 2010		Line 1908	SCALE 100 0 1	1:5000 00 200 300	
6.02	0.03 0.03 0.03	5	2010 2010			2010 2010	0.02	252	0.02	0.02	1.22 2	GEOL ASSE	OGICAL BRANCH SSMENT REPORTMET	TERS	
J.C?	0.02 0.02	0.02	20,02	0,0≥		0.02	0,02	0.02	0.02	202	C.02	Line 300S	7 526		
0.22	0.02 0.02	0.02	0.32	202 202 202		0. J 2	2.02	0,02 500,	0 9 0	20.0	C.02	Line 400S	IL ACCOMPAN	IY REPORT BY: IC, P.ENG.	
600	0.02	0.02	0.02	3.02		0.02	0.02	0.03	0.02	0.02	0.02	Line 500\$	SILVER LUM FUR: GRAZINA I	RESELURCES LTD.	
<0 U	20.0 20.0	0,02	0.02	20.0 0.0 0		ດ 0.0 ເບີ້ຍ ເບີຍ	0.02	0.02	C.02	200 2002		[.ine 600S	BY: IGNA ENGINEERING PLOTTED BY: AND COMPUTER	AND CONSULTING LTD. RPM MAPPING SERVICES LTD.	
												Line 700S	REALIST Soil Geo(Go	TIC GRID CHEMISTRY LD	
														M.D., B.C.	
<u>-</u>										···			PLOTTED BY R.P.M.	FIGURE ND. 17	

Statio tati ta Static Statio Statio tα đ þ ta tà 1750V 1800V 1850V 1900V 1950V 1250W 1200W 1150W 1100W 700/ 650 7300F1 600 M058 M008 750W 400₩ 350W 1020W M0001 700W 450 120V M00 50 00 13 10 9 ~o 4 00 10 æ 9 ច ((B))6 -9-1--0-1-Ħ 9 10 E STR 23 23 23 14 5 18 12 5 ີພ Ξ , සි හි දුරි 6 × 16 15 16 16 1 28 23 38 18 18 18 18 18 18 **}**≊∕_\$ 55 26 **2**6 92 19 4 ₩. ษณ์ เวณ เวษ เวณ

-

÷.



CUNTOUR INTERVAL 20 PPM	
TICKS SIGNIFY AREAS BELOW 20 PPM	
SCALE 1:5000	
100 0 100 200 300	
ENT REPORTERS METERS	
I. BURDVIC, P.ENG.	
FOR: GRAZINA RESOURCES ITD	
IGNA ENGINEERING AND CONSULTING LTD	
PLOTTED BY: RPM MAPPING AND COMPUTER SERVICES LTD.	
REALISTIC GRID SOIL GEOCHEMISTRY COPPER A	
VERNIN M.T. BC	
SJ 82E-15E, 82E-16V DATE: JANUARY 1988	
FIGURE NO. 18	

•



