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Northair Mines Ltd. Eastfield Resources Ltd.

Joint Venture

By Mincord Exploration Consultants Ltd.

# GEOLOGICAL BRANCH ASSESSMENT REPORT

9.131

Omineca Mining Division Latitude: 55 degrees 32 minutes N Longitude: 125 degrees 20 minutes W NTS Maps: 93N/6 93N/11

A. J. Buskas G. L. Garratt J. W. Morton

September, 1989

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#### A. Introduction

In the period between June 17, 1989 to July 24 an exploration program was carried out on the Swan claims north of Fort St. James, British Columbia. The Swan property is held by Eastfield Resources Ltd. under an option agreement, which gives Eastfield the right to acquire a 100% interest in the property subject to a 2% net smelter royalty. An agreement between Eastfield and Northair Mines Ltd. allows for Northair to earn a 50% interest in the property. Northair Mines Ltd. is operator of the project and during 1989 contracted the exploration program to Mincord Exploration Consultants Ltd. of Vancouver.

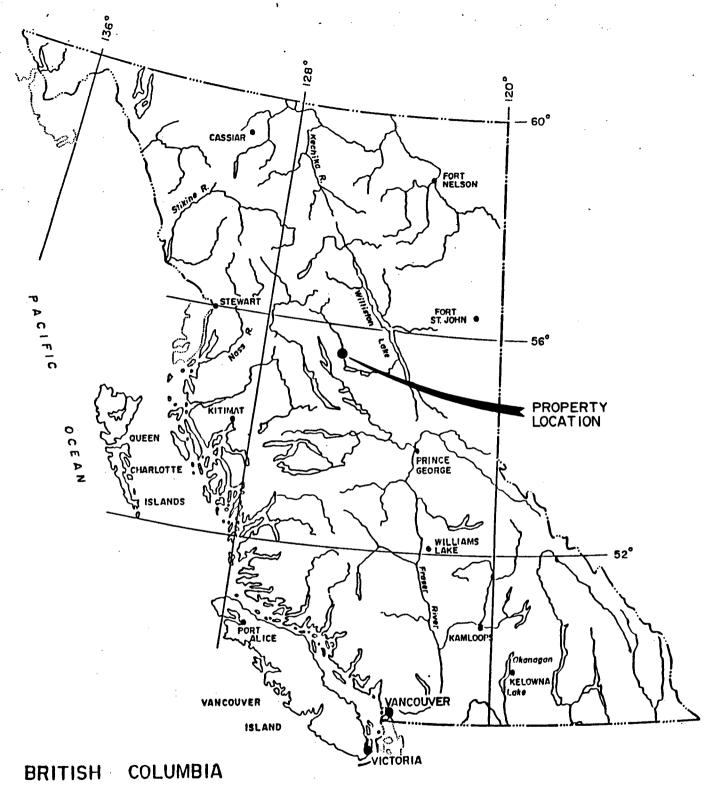
The 1989 exploration program entailed establishing and cutting 22.6 kilometers of grid lines, prospecting and geological mapping the property. 162 rock samples, 143 silt samples and 55 soil samples were collected and analyzed by Acme Analytical Laboratories using multi element procedures. Samples from previous drilling were resampled, described and analyzed. 23.3 line kilometers of induced polarization survey was completed.

Geological mapping outlined the presence of five phases of the Hogem Batholith which showed intense fracturing due to the proximity of the Pinchi Fault. Mineralization is best developed in the Hybrid Quartz Monzonite and Granite/Granodiorite units of the Hogem Batholith. Rock sampling indicated the presence of Au and Cu anomalies in the North Copper Zone and Cu anomalies in the South Copper Zone. Silt sampling indicated the presence of several Au anomalies and a few Cu anomalies. The induced polarization survey revealed three strong chargeabilty anomalies and several additional weaker chargeability anomalies.

The exploration program delineated six target zones. A two phase exploration program is recommended to test these targets. The first phase would comprise 7000 feet (2134 m) of diamond drilling. The second phase would consist of testing geochemical anomalies. Contingent upon the results of this program a second exploration program is recommended including an I.P. survey, diamond drilling and geochemical sampling.

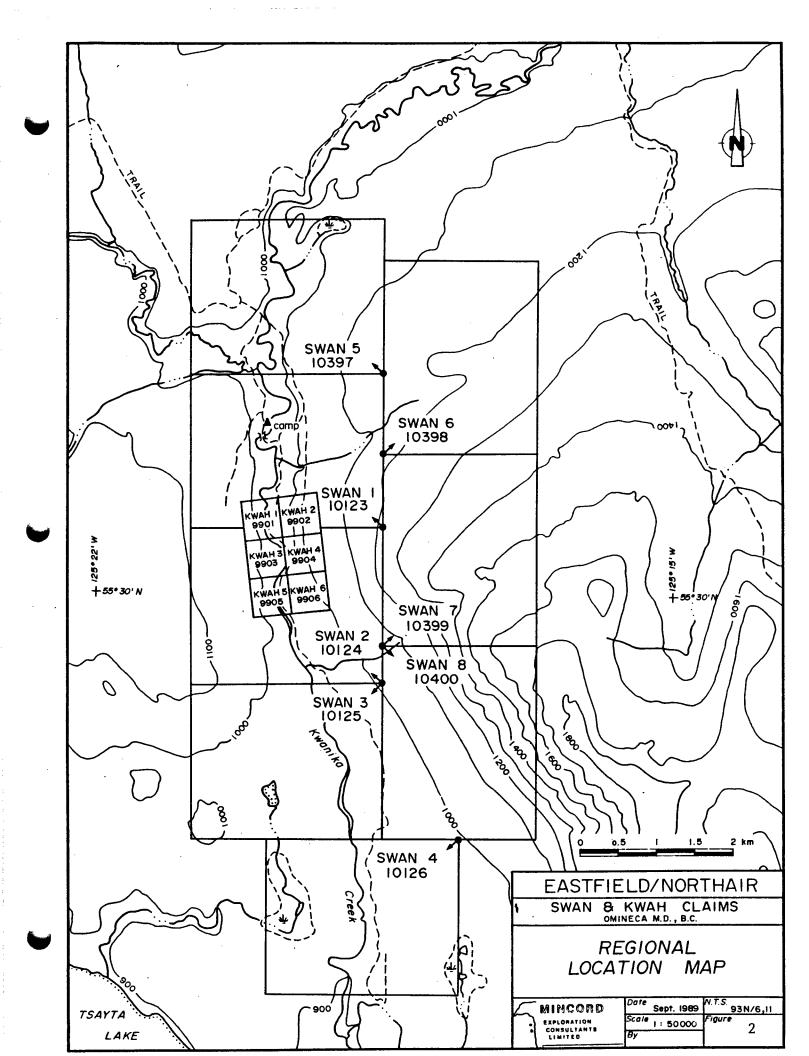
#### B. Location, Access and Physiography

The Swan claims are located on Kwanika Creek, in the Swanell Ranges a subdivision of the Omineca Mountains. Specifically they are located northeast of Tsayta Lake, at 55 degrees 30 minutes North latitude, 125 degrees 20 minutes West longitude NTS maps 93N/6 and 93N/11. (see figures 1 and 2). Access to the claims is by two wheel drive gravel road from Fort St. James via Manson a distance of 256 kilometers. The road from Manson Creek Creek, continues west some 40 kilometers to Takla Lake where the B.C. line is presently being restored to active use. The Rail reactivation of the B.C. rail line will have significant impact on the viability of developing a copper or copper-gold orebody in this region. Fort St. James and Vanderhoof are regional centres for government, logging and agriculture and offer good logistical support.



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The claims occupy a drift covered U-shaped glacial valley with elevations varying from 900 m (2950 ft) to 1750 m (5750 ft). Within the valley, topography is for the most part gentle with verv little relief, the only exception being a steep slope present on the west bank of Kwanika Creek. A mixed pine and spruce forest cover the claims with occasional shallow lakes and Most outcrops present are located on Kwanika swamps present. Excepting the Kwanika Creek valley, which offers a Creek. north-south transect through the property, outcrop is scarce.

Kwanika Creek lies east of the Pacific divide and drains southward in to the Nation Lakes chain which flows eastward to Williston Lake and eventually the Peace River. There are no salmon or other coastal marine species in this water way.

#### C. Ownership

Clain	n	Units	Record No.	Record Date
	_			
Kwah	1	1	9901	Oct 19, 1988
Kwah	2	1	9902	Oct 19, 1988
Kwah	3	1	9903	Oct 19, 1988
Kwah	4	1	9904	Oct 19, 1988
Kwah	5	1	9905	Oct 19, 1988
Kwah	6	1	9906	Oct 19, 1988
Swan	1	20	10123	Feb 16, 1989
Swan	2	20	10124	Feb 15, 1989
Swan	3	20	10125	Feb 13, 1989
Swan	4	20	10126	Feb 14, 1989
Swan	5	20	10397	May 6, 1989
Swan	6	20	10398	May 6, 1989
Swan		20	10399	May 4, 1989
Swan		20	10400	May 4, 1989

Total Claims: 14

Total Units: 166

The above listed claims are held under option by Eastfield Resources from W. Halleran of Fort St. James, B.C. A joint venture agreement between Eastfield and Northair Mines Ltd. was reached on May 1, 1989 whereby Northair must make cash payments totalling \$300,000 and complete \$2,000,000 in exploration over the next six years of which \$100,000 must be spent on exploration These terms comply with Eastfield's right to in the first year. earn 100% interest in the property, subject to a 2% NSR in favour of Mr. Halleran.

#### D. History

Exploration in the vicinity of Kwanika Creek first occurred in the late 1930's and early 1940's following the discovery of mercury at Pinchi Lake in 1937. Initial exploration was directed towards mercury along the Pinchi Fault and placer gold in Kwanika The area was first mapped in 1941 and 1943 by J.W. Creek. Armstrong of the Geological Survey of Canada. The Bralorne Takla Mercury Mine, located 4 kilometers northwest of the property, operated from 1943 to 1944 producing 132,088 lbs of mercury. Placer gold operations have been worked intermittently to the present along Kwanika Creek on the southern half of the Swan claims.

The outcrops along Kwanika Creek were recognized as having a copper (molybdenum) potential and staked in 1964 by A. Almond, G. Bleiler and A.G. Hodgson. Initial exploration was carried out in 1965 by Hogan Mines Ltd. and included bulldozer trenching, and two x-ray diamond drill holes totalling 87 feet (26.5 m). The property was optioned by Canex Aerial Exploration Ltd. (now Placer Dome Inc.) in 1966. Their program included building access roads, 42 miles (67.6 kilometers) of line cutting, geochemical, magnetometer and I.P. geological, surveys and Eleven AX diamond drill holes totalling 2807 feet trenching. m) were completed before Canex terminated their option. (855 In the property was optioned by Great Plains Development 1969 Company of Canada, Ltd. (now Norcen Energy Resources Ltd.). Their exploration program included a magnetometer survey and seven BQ diamond drill holes totalling 4328 feet (1319 m), before The result of the Canex and Great terminating their option. Plains work was the geological definition of a low grade copper deposit within an area of 1600 feet (488 m) by 1000 feet (305 m).

In 1972, Bow River Resources, formerly Hogan Mines Ltd, drilled six percussion holes for a total of 1800 feet (548 m). That same year, J.A. Garnett of the B.C.D.M., with two assistants, spent 10 days mapping, investigating showings and logging core on the property. In 1973 the property was optioned by Pechiney Development Ltd. who expanded the area under investigation in a southerly direction. Their exploration program included establishing and cutting 40 line miles (64.4 kilometres) of grid, a ground magnetometer and I.P. survey, and 30 percussion drill holes totalling 9820 feet (2993 m) before dropping their option. Subsequently Bow River Resources abandoned the claims.

Interest in the area was recently rekindled by W. Halleran who staked the Kwah claims on October 19, 1989 and demonstrated a copper-gold affinity in the mineralization. In mid-February 1989 W. Halleran staked the Swan 1-4 claims for Eastfield Resources Ltd. In early may 1989, Eastfield Resources staked the Swan 5-8 claims. On March 13, 1989 an agreement was formalized between W. Halleran and Eastfield whereby Eastfield has the right to earn a 100% interest in the Kwah and Swan claims subject to a 2% NSR in favor of Halleran.

#### E. Geology

#### E1. Regional Geology

The major geological features in the region of the Swan Property are the Triassic aged Takla Group meta sediments which are intruded by the various phases of the Hogem Batholith. Paleozoic aged Cache Creek Group rocks occupy the extreme western portions of the property. The Pinchi Fault, a major north northwest trending suture zone, separates the Paleozoic terrain from Mesozoic and Cretaceous aged units which occur to the east.

The Cache Creek Group in the vicinity of the Swan property is composed of limestones believed to be Permian in age. Ultramafics of unknown age have previously been included in the Cache Creek but are now believed to be younger. Outcrops of Cache Creek limestone occur on Kwanika Creek in the southern part of the property and to the west of the creek in the central part of the property. A linear trending band of Cache Creek ultramafics are present in the western regions of the property. The Upper Triassic Takla Group metasediments outcrop in two places on Kwanika Creek. The most significant occurrence of this package is in the central part of the property where argillites, greywackes, volcaniclastic/greywackes and conglomerates occur. Two small outcrops of Takla argillite are present farther to the south.

The majority of rocks outcropping on the property belong to two of the intrusive phases of the Hogem Batholith. The first phase is Lower Jurassic in age and was classified by Garnett of the B.C. Department of Mines (1978) as having three distinct rock varieties; a Monzodiorite to Diorite; a Monzonite to Quartz Bearing Monzonite; and a Hybrid Quartz bearing Monzonite. The second phase is Lower Cretaceous in age and was classified by Garnett as a Quartz Monzonite to Granite variety.

On the south part of Kwanika Creek are two outcrops of a Polymict Boulder Conglomerate. These were considered by Garnett to be Upper Cretaceous in age. The major structural lineament in the area is the Pinchi Fault which trends north northwest and regionally varies from 100 to 1500 m wide. It separates the older Paleozoic rocks from younger Mesozoic rocks but cannot be directly observed as its surface trace is covered by glacial The proximity of the Pinchi Fault to Kwanika Creek is drift. evidenced by the presence of fractures, shears and faults in outcrops along the creek. It is speculated that this fault may significance in preparing adjacent terranes have had for ascending mineralizing hydrothermal systems.

#### E2 Property Geology

#### E2.1 Introduction

A lack of outcrop due to a thick cover of glacial drift severely limited geologic mapping. Most outcrops occur along the banks of Kwanika Creek where glacial drift has been eroded away and while this results in much less than 5% outcrop exposure, enough variety occurs to delineate the major units. Another inhibiting factor in the mapping was the high degree of alteration undergone by rocks of the Hogem Batholith. This makes the application of classical petrographic terms difficult. In an attempt to

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circumvent this problem the rock units of Garnett (1978) were retained, but somewhat modified, for mapping. Garnett's units and their equivalents are listed below.

Garnett (1978)

#### Units used herein

The majority of outcrops present on the property belong to the various intrusive phases of the Hogem Batholith. These rock units may be thought of as two end members, with the Monzonite and Quartz Diorite as one and the Granite/Granodiorite as the other. The Hybrid Quartz Monzonite (H.Q.M.) and Quartz Syenite represent an intermediate group that are the result of hydrothermal alteration and silicification of the Monzonite unit during intrusion by the Granite/Granodiorite unit.

#### E2.2 Granite/Granodiorite (Unit 5)

The Granite/Granodiorite unit is the youngest of the five intrusive units and is considered to be Lower Cretaceous in age. It outcrops in the northwest part of the property along West Kwanika Creek; in the centre of the property at about 9+00S to 15+00s and in the south from 30+50s to 55+50s on Kwanika Creek. This unit is a pink leucocratic, medium grained intrusive which may contain up to 15% mafic minerals, usually less than 5%. It varies from weakly to intensely fractured with fracturing most strongly developed in outcrops on the south part of the property. Plagioclase feldspars within this unit have commonly undergone argillic (sericitic?) alteration the intensity of which is proportional to fracturing. Hematite is also commonly present as patchy stains on fracture surfaces but may be pervasive. In only instance was epidote observed in this unit occurring as one rounded blebs up to 1 cm in size.

The Granite/Granodiorite may be cut by dark green/black, aphanitic diorite(?) dykes and rare feldspar porphyry dykes. The diorite(?) dykes usually possess strong chlorite alteration and have hematite coated fractures. Occasional melanocratic pods have also been observed in outcrop. Brecciation in this unit is very rare but has been observed in one outcrop north of 48+80S on the east bank of Kwanika Creek. In this instance, the granitic rocks are cut by a black intrusive which contains rounded xenoliths of the country rock. Quartz and carbonate veining are present in outcrop but are not well developed. Only in one instance was magnetism noted in these rocks.

The Granite/Granodiorite unit has been observed in contact with and intruding the Takla Group and intruding the H.Q.M. and Monzonite units. Where it is in contact and intrudes the Takla, it varies from a pale pink to purplish (hematite? staining), very fine grained intrusive, rarely containing K-feldspar phenocrysts. Where it intrudes the H.Q.M. and Monzonite it occurs as salmon pink felsic dykes composed of K-feldspar with less than 10% quartz and less than 2% mafic minerals. The dykes have sheared contacts.

## E2.3 Hybrid Quartz Monzonite (HQM) and Quartz Syenite (Unit 3)

The H.Q.M. is Lower Jurassic in age and outcrops in two zones on Kwanika Creek from 0+00 to 8+00S and from 31+80S to 36+00S. These two zones are separated by the Takla Group and the Monzonite and Granite/Granodiorite of the Hogem Batholith. The H.Q.M. is the most variable unit within the Hogem Batholith due to the wide variety and high degree of alteration it has undergone. Various rock types included in this unit are Quartz Syenites, Syenites, Syenodiorites, Monzonites, Monzodiorites and Diorites. In the northern zone during initial mapping a Quartz Syenite unit, composed of Syenites and Quartz Syenites, was distinguished and has been included on the maps. It is now considered that this unit represents an alteration zone where substantial secondary K-feldspar and minor quartz have been introduced into the unit.

The H.Q.M. varies in color from a mottled pink to mottled green and black rock. It is medium grained to aphanitic (where strongly chlorite altered) and weakly to strongly fractured. It has undergone extensive alteration, including K-feldspar, chlorite, epidote, argillic and silicification. In addition, hematite commonly occurs on fracture surfaces (in association with chlorite and epidote alteration) and may also occur as discrete bright red blebs (sometimes mistaken for cinnibar). Quartz and carbonate veinlets are present in this unit, quartz veinlets are usually associated with K-feldspar alteration.

In outcrops at the south end of the north H.Q.M. zone there is the development of a breccia. It occurs in intensely chloritized rock and is best visible on freshly broken surfaces where clasts may protrude. it is thought that this breccia has channeled hydrothermal fluids as evidenced by the intense chlorite alteration associated with it.

An outcrop of H.Q.M., located at 34+50S to 36+00S on the east bank of Kwanika Creek, has been pervasively cut by numerous carbonate veinlets striking from 140 degrees to 160 degrees. This outcrop is intensely fractured with K-feldspar, chlorite and epidote alteration present, hematite is also present on fracture surfaces and associated with carbonate veinlets. This outcrop is a carbonate stockwork and is thought to represent the top end of a hydrothermal system. It has also been suggested that the breccia occurring to the north represents a lower part of this same hydrothermal system.

## E2.4 Monzonite and Quartz Diorite (Unit 4)

The Monzonite unit is also Lower Jurassic in age occurring north of camp on the east bank of Kwanika Creek, south of camp at approximately 2+00N 5+25W on a small tributary to the east of Kwanika Creek and between 27+50S and 29+50S on Kwanika Creek. It is a fine to medium grained leucocratic intrusive which may contain up to 50% mafic minerals, usually less than 30%. The mafic minerals are predominantly biotite with lesser amounts of hornblende. It may also contain up to 5% quartz. This unit usually displays weak chlorite and epidote alteration with chlorite riming biotite grains and very rare epidote veinlets. It may sometimes display magnetism, very rare hematite staining and is rarely weakly mineralized with trace pyrite. Fracturing, shearing and faulting have been noted in the unit and it may be cut by quartz and carbonate veinlets.

A single outcrop of the Lower Jurassic Quartz Diorite was observed at approximately 2+00N and 3+25W on a small tributary to the east of Kwanika Creek. At this locality, it is silicified and contains up to 40% quartz most of which is blebby and appears to be secondary. it is strongly magnetic and contains 20% mafic minerals which are biotite and horn blende. No mineralization was observed in this unit.

## E2.5 Takla Sediments/Volcaniclastics (Unit 2)

In the central portion of the claims from 15+00s to 31+00s outcrop the Upper Triassic Takla Group metasediments. They are predominantly argillites, interbedded black mudstones and brown siltstones, and possess a slaty cleavage which is parallel to bedding. Bedding within the argillites predominantly strikes from north to northwest and is relatively steeply dipping to the east or west varying from 60 degrees to 80 degrees. Tight concentric folding has been observed in the argillite. In two instances dykes, one a siliceous feldspar porphyry dyke and the other an altered mafic dyke, were observed cutting the argillite. The argillite also shows the development of numerous randomly oriented fractures which are resealed by carbonate veinlets. This feature is best developed at the contact with the Granite/Granodiorite and where the argillites are cut by dykes.

Also present in the area are greywackes and greywacke/volcaniclastics. The greywackes vary from siltstone to sandstone, are massive, do not exhibit cleavage and usually possess a weak limonite stain. In places they have been fractured and resealed by randomly oriented carbonate veinlets, but this is rare. Occasionally greywackes contain shale rip up is clasts suggesting it flow. a mass The greywacke/volcaniclastic differs from the greywacke in containing angular shards implying a volcanic component has been added to the sediments.

Rarely occurring in the Takla at this locality are the conglomerates. They are a paraconglomerate with pebble sized clasts and a fine grained black mud matrix. Commonly a weak limonite stain is present on the surface of the conglomerates.

small outcrops of argillite are present 48+805 on Kwanika Two intimately They are associated with the Creek. fractured with randomly Granite/Granodiorite unit and are carbonate resealing fractures. veinlets These oriented strike at 304 degrees and dip to the east at 84 argillites degrees which is parallel to the contact with the intruding Granite/Granodiorite unit.

#### E2.6 Cretaceous Conglomerate (Unit 7)

Two outcrops of the Upper Cretaceous Polymict Boulder Conglomerate were encountered during mapping on the south part of Kwanika Creek. The unit varies from a para to orthoconglomerate with rounded pebble to cobble sized clasts in a red clay matrix. The cobbles and pebbles have a black coating which is thought to be hematite. Outcrops are bright red in color due to a pervasive hematite staining.

#### E2.7 Cache Creek Rocks

Cache Creek age blue grey limestone was encountered near an old prospect trench occurring at 33+00S 12+50W. Silicified ultramafic was observed immediately west of this limestone. It is thought that the old trench was once part of the Bowleg Group explored for its mercury potential by the Consolidated Mining and Smelting Co. of Canada during the second world war.

#### E2.8 Structure

Structurally the most important feature in the immediate vicinity is the Pinchi Fault. Its proximity to Kwanika Creek has resulted in strong to intense fracturing with shearing developed in many outcrops on the creek. Fracturing within any single outcrop usually shows several orientations and these display complex cross cutting relations, indicating that several episodes of movement have occurred. Fractures are thought to have acted as conduits for hydrothermal fluids with subsequent deposition of minerals including pyrite, carbonate, quartz, K-feldspar, hematite, chlorite and epidote on fracture surfaces often pervading surrounding rock.

Some very basic fault trends were noted during mapping. These include northeast trending (probably the best developed), northwest trending, north trending and east trending faults. When slickensides were present they usually possessed shallow pitches (less than 20 degrees) indicating predominantly strike skip motion. However a few were also noted with steep pitches indicating predominantly dip skip motion. A structural analysis of the Swan property is beyond the scope of the present project. Suffice it to say that the area is structurally complex which is consistent with its proximity to the Pinchi Fault.

### E3 Mineralization and Alteration

The most common mineral present is pyrite. It may occur as disseminated grains, blebby masses up to 10 cm in size in shears and as veinlets filling fractures, and is present in the H.Q.M. and Granite/Granodiorite units. The most striking type of pyrite mineralization occurs in rusty gossans which occur within the north H.Q.M. zone. Here large blebs up to 10 cm in size and stringers up to 2-3 mm wide and disseminated grains of pyrite occur and may compose up to 20% of the outcrop in places. This type of mineralization is associated with shearing. Outcrops in these zones are usually silicified but may contain pods of intense argillic alteration.

Chalcopyrite mineralization in the H.Q.M. is usually associated with pervasive chlorite alteration while epidote, K-feldspar and hematite are also present. In these instances chalcopyrite usually occurs as disseminated fine grains less than 1 mm in size but rare blebs 1-2 mm in size and stringers less than 1 mm wide may occasionally develop. Often grains of pyrite are also present and occasionally bornite grains may also be present. Relative concentrations of pyrite to chalcopyrite are often low in areas of higher copper values resulting in a relationship where higher copper-gold values may occur in areas of relatively low total sulfide content (1-2% Total sulfides). It has been noted that better copper-gold values often occur with substantial geochemical zinc concentrations (up to +2000 ppm Zn).

Chalcopyrite may also occur in the Granite/Granodiorite unit. Often it occurs as blebs up to 5 mm in size with malachite and rarely azurite, as halos and on fracture surfaces. It may also occur as stringers less than 1 mm wide filling fractures. Pyrite and molybdenite may be present, along with argillic (sericite?) alteration and occasional hematite staining.

Molybdenite is of rare occurrence in the H.Q.M. and Granite/Granodiorite unit. It has been observed in the H.Q.M. occurring as blebs in quartz veins. In the Granite/Granodiorite unit it is associated with chalcopyrite and argillic (Sericite?) alteration, occurring as disseminated grains.

## F. Geochemical Sampling

Five types of geochemical sampling were done on the project, including soil, silt, rock, old trench and core sampling. Soil sampling was done on line 2+00S from 22+50W to 26+00W; line 4+00S from 22+00W to 26+00W; and on lines 25+50S and 27+50S from 11+00W to 15+00W. Samples were taken at 50 m intervals within 3 m of the station, 10-20 cm below the surface, in the B soil horizon. Samples were not taken when the station was located in swampy or marshy ground. A total of 55 samples were taken. Soil samples were allowed to air dry before shipping to Acme Analytical Labs Ltd., Vancouver, where they were analyzed for 30 elements using ICP (Induced Coupled Plasma); and for Au, samples prepared for fire assay and analyzed using AA (Atomic Absorption). These analytical results may be found in appendix 2, Certificates of Analyses. Soil sampling was done at these locations in hopes of geochemically confirming I.P. anomalies found on these lines. Results for the soil samples did not confirm the presence of a strong Cu or Au geochemical anomaly associated with the I.P. high. However, two anomalous values for Au were found with 20 ppb Au present at 27+50S, 14+25W and 77 ppb Au at 25+50S, 11+75W. It is impossible to predict the depth of overburden in this area and it should be noted that no outcrops occur here.

Silt sampling was done on all tributaries of Kwanika Creek, provided water flow was sufficient to warrant sampling. Samples were taken between 2+00N and 33+80S on the east side of Kwanika Creek, and between 11+00S and 24+50S on the west side of Kwanika. Two problems hindered sampling on the west side of Kwanika Creek. First, a cat road is present running parallel to Kwanika Creek on top of the steep bank on the west side of the creek. It was felt that samples taken below the cat road would be affected by glacial drift moved during the building of the road. The second the gentle nature of the topography above the cat road was resulting in low water flow making creeks unsuitable for Silt samples were allowed to air dry before shipping sampling. to Acme Analytical laboratories Ltd., Vancouver, and analyzed for 30 elements using ICP; and for Au, samples were taken, 11 from west side of Kwanika Creek and 132 from the east side. the Results of the silt samples indicated the presence of a single Au anomaly on the west bank of Kwanika at 24+00S 5+00W with 1227 ppb An anomalous Cu value of 361 ppm Cu was recorded from the Au. sample taken on Kwanika Creek around line 33+80S. This sample is associated with Cu anomalies in rock samples collected at the Sampling on the east side of Kwanika Creek was same locality. more successful. The best results were obtained on two of the most northerly creeks denoted 0+95N, and 1+95S. The highest anomalies were obtained on creek 0+95N with values of 42, 112, 25, 85 and 1422 ppb Au at 1+00E, 3+00E, 7+00E, 10+00E and 11+00E Three Cu anomalies were recorded on this creek at respectively. 16+00E, 17+00E and 18+00E on the south tributary of 114 and 108 ppm Cu respectively. A single Au anomaly was recorded on creek 0+30S at 5+00E, of 106 ppb Au. Consistent but low Au anomalies were recorded on creek 1+95S at 4+00E, 6+00E, 7+00E, 9+00E and 13+00E of 22, 21, 25, 45 and 32 ppb Au respectively. A single Au anomaly of 104 ppb Au was recorded on creek 9+30S at 5+00E. Two Au anomalies of 47 and 117 ppb Au were found on creek 23+00S at 12+00E and 14+00E. A single anomaly of 296 ppb Au was found on the west tributary of creek 29+50S at 3+00E. Two anomalies of 54 and 23 ppb Au were recorded on creek 34+25S at 4+00E and 5+00E respectively.

Rock samples were collected from all intrusive outcrops and some of the outcrops of Takla Group metasediments during mapping. Most samples taken were a pseudo chip sample taken over 1 m at 90 degrees to any visible structure. Samples not of this variety have been noted as such in appendix I3 of this report. Samples were sent to Acme Analytical Laboratories Ltd. and analyzed for 30 elements using ICP, for Au, samples prepared for fire assay and analyzed by AA; and 77 of the samples analyzed for Hg by AA. A total of 162 rock samples were submitted.

The results of sampling indicate the presence of two anomalous copper zones described in earlier reports as the north and south copper zones. In the south zone, a Cu anomaly high of 9462 ppm Cu were recorded. The Cu anomalies here occur in the Granite/Granodiorite unit and in the Hybrid quartz Monzonite unit containing dykes of the Granite/Granodiorite unit.

The south zone is distinct from the north zone in not containing many anomalous Au values. Two of the samples, SW-AB-89-19d and SW-AB-89-78b, contain quartz veins suggesting that the Au here has been brought in by quartz.

The north copper zone differs from the south in that the anomalies present occur in the Hybrid Quartz Monzonite unit, and that a number of significant Au anomalies are present. However, Cu and Au anomalies do not appear to show a definitively direct correlation although they may occur together in the same sample. Samples from which high Cu anomalies were recorded usually where dark, strongly chloritized rocks ranging from syenodiorites to diorites. High Au anomalies were observed to more commonly be associated with silicification, quartz veining and pyrite mineralization. Gold values up to 1081 ppb were obtained from this style of mineralization (sample SW-AB-89-27f).

Anomalous Au values of 107 and 198 ppb were obtained from samples SW-AB-89-76 and SW-AB-89-MR-18 respectively, in the vicinity of west Kwanika Creek. These samples were taken from a strongly fractured, chlorite altered, monzonite/diorite with hematite coating fracture surfaces.

Sample SW-AB-89-48a is of interest as it contained a Pb anomaly of 880 ppm. This sample was taken from a quartz vein which also contained substantial Mo (1431 ppm), minor Cu (289 ppm) and Au (29 ppb).

An attempt was made to reassess some of the trenches dug in previous years. Unfortunately most trenches were badly caved in, water filled and even overgrown by bush. One trench, located near line 2+00S on the east bank of Kwanika Creek, was scraped clear of a thin overburden cover to better expose the outcrop. The trench contained a silicified, occasionally argillic altered Quartz Syenite (H.Q.M. unit) with strong pyrite mineralization occurring over a 2 m width in interval T1A. Chip samples were taken the length of interval T1A (6.9 M) and interval T1B (12.2 m). The results may be found in appendix 2. Cu anomalies of 722 and 800 ppm and Au anomalies of 50 and 86 ppb were obtained from intervals T1A and T1B respectively. Samples were taken of core from drill holes previously completed on the property. Unfortunately the poor condition of the core boxes made location of the samples impossible. They were analyzed by Acme Analytical Laboratories Ltd., Vancouver using multi element techniques the results of which can be found in appendix 2 and are described in appendix 3. Although anomalous Cu and Au results were obtained no direct correlation between rock types or alteration can be made due to the disrupted state of the core.

#### G. Geophysical Survey

A time domain induced polarization survey totalling 23.3 kilometers was completed by Scott Geophysics between July 10 and July 21, 1989. A Scintrex IPR-11 receiver and a Scintrex 10 kilowatt transmitter were utilized in the survey. A pole-dipole array using 5 or 10 separations of 50 meters each was employed.

The objectives of the survey were three fold. Firstly, the survey was designed to reorientate the original surveys completed by Canex Aerial Explorations and Pechiney Development subsequent to 1973. Secondly, a ten separation survey was completed on lines 200s and 400s to test for mineralization immediately west of the northern hybrid zone under deeper overburden cover. Deeper covered sources of mineralization would not have responded to earlier techniques. Thirdly, the new survey was completed to compare 'state of the art' methods to older somewhat obsolete techniques.

The "ten separation" survey completed on lines 2005 and 4005 outlines the geophysical anomaly which correlates to the mineralized northern hybrid zone. Chargeability responses from deeper separations (6-10) on line 2005 and 4005 indicates that the geophysical response continues to approximately 1825 W which is 300 meters west of the western most drill holes giving this anomaly a minimum width of 725 m. The ten separation profile on line 2005 would also suggest that this anomaly may continue a further 250 meters to 2275W where its expression is again reflected at shallower separations and where, coincidentally, the thins. The chargeability anomaly overburden cover again indicated on line 2550S between 1150W and 1500W appears to form a southerly extension of this western anomaly. If these eastern and western anomalies do coalesce at depth, then a broad area of 2.3 kilometers by 0.9 kilometers exists in which there may be several zones equivalent to the northern hybrid zone.

The very strong chargeability anomaly encountered on the western end of lines 200S and 400S (2575W to 2775W on line 200S) is believed to reflect altered ultramafic rocks. Silicified and cinnabar rich ultramafics are exposed in old trenches west of the property and north of the survey area at 000S 2800W and 400N 2725W. These trenches are on strike with this geophysical trend and are believed to define a fault trace of the Pinchi Fault Zone. Several additional weak chargeability anomalies were detected on the more southerly lines surveyed. Correlation of these anomalies with geological features is not possible at this time due to lack of information in these areas.

#### H. Conclusions and Discussion

#### H1. Conclusions

- Geological mapping indicates the presence of 5 separate units of the Hogem Batholith on the property. The Quartz Syenite (3a) unit is actually a subdivision of the Hybrid Quartz Monzonite (3b). Also present on the property are metasediments of the Takla Group.
- Cache Creek Group limestones and silicified ultramafics occur on the western part of the property. Cinnabar and pyrite mineralization are known to occur just west of the property at the northern end and are hosted by silicified ultramafics and silicified limestone.
- 3. The Hogem Batholith and Takla Group are separated from the Cache Creek Group by the Pinchi Fault which is interpreted to trend northerly to northwesterly from the south-central to the northwest corner of the property.
- 4. The Pinchi Fault has strongly influenced the outcrops present on Kwanika Creek. This has been displayed by the strong fracturing and shearing present in many outcrops along the creek. Furthermore, intensity of fracturing appears to be proportional to alteration intensity.
- 5. Mineralization is best developed in the Hybrid Quartz Monzonite unit (3b) and in the Granite/Granodiorite unit (5).
- 6. The highest and most consistent copper and gold anomalies were recorded in rock samples collected from the North Copper Zone. While gold and copper anomalies do show a spatial correlation, they often do not show direct relationships in individual samples. Anomalous concentrations of zinc commonly occur in association with copper-gold mineralization.
- 7. Somewhat lower copper anomalies were recorded in rocks collected from the South Copper Zone. Gold anomalies were rare in this zone. Rock exposure, and therefore sample density, is much less in the south zone and might influence these relative results.
- 8. Silt sampling indicated significant gold anomalies on creeks 0+95N and 1+95S on the east side of Kwanika Creek. Three copper anomalies were also recorded on creek 0+95N. A significant solitary gold anomaly of 1227 ppb was found at 23+00S 5+00W on the west side of Kwanika Creek.

- 9. A strong broad chargeability anomaly was indicated as occurring on lines 200S and 400S from 1200W to 1825W. This anomaly may continue west to 2275W where it is again reflected under shallower overburden depths. This anomaly may also connect with the anomaly on line 2550S from 1130W to 1500W. If these western and eastern anomalies coalesce, a large area of 2.3 kilometers by 1.0 kilometers exists which could potentially host mineralization similar to the north copper zone. The north copper zone correlates strongly with the eastern I.P. chargeability anomaly.
- 10. A strong chargeability anomaly was recorded on the western ends of lines 200S and 400S. This is considered to reflect altered ultramafic rocks and may represent a trace of the Pinchi Fault Zone. Sulphide bearing zones of epithermal silicification may form portions of this anomaly.
- 11. The best copper mineralization was not always associated with the strongest sulphide mineralization. Therefore significant copper may be found where lower chargeability anomalies were detected. This is supported by the significant assay values recorded from DDH's A3, A5 and P5 which were drilled into the periphery of the broad northeastern IP anomaly (0.232% Cu x 166 ft, 0.16% Cu x 50 ft, and 0.17% Cu x 270 ft, respectively).

#### H.2 Target Area Discussion

#### H2.a Eastern I.P. Anomaly

- -1800 meter strike by 400 to 600 meter width, open to the north (0+00 to 1550S).
- -overlaps the known extent of drill and surface sample indicated northern copper deposit.
- -describes a strong potential for extending the limits of the copper deposit to the south, west and north.
- -drill hole and surface sampling defines this as the best known area of mineralization to date for copper and gold (zinc).
- -the western boundary of the I.P. anomaly is suspect and may continue much further to the west, possibly coalescing with the western I.P. anomaly.
- -the eastern edge of the anomaly appears to be partly masked by thick overburden.

#### H2.b Western I.P. Anomaly

- -3500 meter strike (interpolated between 1550S and 2550S) by 300 to 500 meter width, open to the north and south (0+00 to 3380S).
- -two apparently stronger chargeability zones lie within this anomaly.
- -weakly mineralized intrusives outcropping to the north suggest that this anomaly overlies intrusive rocks.

- -the western edge of this anomaly, at the northern end, is in contact with another very strong chargeability anomaly that is believed to be underlain by ultramafic rocks; this I.P. contact is therefore believed to mark, at least in part, the trace of the Pinchi Fault.
- -the strength and breadth of this anomaly describe a strong potential for the discovery of additional copper (gold) deposits.

#### H2.c North Central I.P. Anomaly

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- -the area lying between the northern portions of the east and west I.P. anomalies.
- -thick overburden cover (to 160 feet) characterizes this area, thinning to the west and east.
- -the ten separation I.P. (lines 2+00S and 4+00S) indicate that the eastern and western I.P. anomalies may continue through this central area. (Supported by flat shallow resistivity contours, non-parallel chargeability contours and broadening of the flanking anomalies at the deeper separations).

#### H2.d Cabin Zone

- -several small weak chargeability anomalies between 2550S and 3380S flanking Kwanika Creek.
- -the only outcrops in this area carry weak copper mineralization and coincide with the narrow anomaly along Kwanika Creek on lines 3180s and 3380s.
- -large massive K-feldspar (quartz) dykes occur in this area.
- -the lack of geophysical response would restrict the potential of this area.

#### H2.e South Zone

- -three weak to moderate chargeability anomalies are open-ended from lines 4880S to 5480S and each display a width of 200 to 400 meters.
- -the only outcrops in the area occur at the westernmost ends of 5280S and 5480S; these display minor copper occurrences with little pyrite hosted by granite.

-hybrid rocks may be indicated by the presence of the limited mineralization and the I.P. anomalies.

-these targets may have potential to the north and south.

#### H2.f Stream Geochemical Anomalies

- -east of Kwanika Creek from creek 0+95N to creek 1+95S.
- -several gold and a few copper anomalies; gold peaks at 1422 ppb -outcrop is extremely limited; by interpolation, the area is suspected to be underlain by varieties of diorite, granodiorite and mafic intrusions.
- -with eleven anomalous gold samples, and three or more copper anomalies, an area of approximately 600 m. by 1400 m is defined as anomalous, requiring follow-up exploration.

-as isolated gold value (1227 ppb) in a stream sediment sample from the west side of Kwanika Creek drains an area lacking of outcrop but underlain by a small weak chargeability anomaly near Kwanika Creek and by the large, strong chargeability anomaly of the western I.P. anomaly further upslope to the west.

#### I. Recommendations

Six anomalous areas have been defined and each show their own exploration potential. Exploration to date on all but the eastern I.P. anomaly has been cursory, but allows some definition for the purpose of prioritizing the next phase of exploration in order to:

- a. further delineate known mineralization and test the first-pass anomalies defined above and
- b. define the risk of expanding the exploration to a thorough evaluation of all targets.

In this context, it is recommended that a two-part Phase 1 program deal with the following:

Phase 1-A: Diamond Drilling (Approximately 7000 ft.)

- Eastern I.P. Anomaly: four holes approx. 700 feet (213.3 m) each located, where feasable, to retest previously drilled area as well as the western extension of the zone. Western I.P. Anomaly: two angled holes approx. 700 feet (213.3 m) each, on the northern target; two angled holes approx. 700 feet (213.3 m each, on the southern target.
- Central I.P. Anomaly: one vertical hole approx. 700 to 1000 feet.

Phase 1-B: Evaluation of Geochemical Anomalies

Grid soil sampling, approx, eight lines 1400 m long, 100 m apart, with 25 m. stations, in the area east of Kwanika Creek.

The Phase 1 program is estimated to cost \$350,000.00

Phase 2:

Contingent upon Phase 1, this program would entail a thorough evaluation of all target areas. Approximately 40 km of grid establishment, I.P. and magnetic surveys; 20,000 feet of drilling; further reconnaissance geochemical sampling.

The Phase 2 program is roughly estimated to cost \$950,000.00

## APPENDIX 1

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Statement of Qualifications

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STATEMENT OF QUALIFICATIONS

I, Arvid John Buskas, of R.R. #2, Wetaskiwin, Alberta, do hereby certify:

- 1. I graduated from the University of Alberta, Edmonton, in 1982 with a Bachelor of Science with Honours in Geology.
- 2. I graduated from the Australian National University, Canberra, Australia, in 1987 with a Master of Science in Geology.
- 3. From 1980 to 1983 I worked summers as a geological field assistant and have worked full time as a geologist since 1987.
- 4. I supervised the work described in this report, and undertook the geologic mapping and rock sampling program.

Bukag M. Sc.

Dated at Vancouver, British Columbia, this 15th day of September, 1989.

STATEMENT OF QUALIFICATIONS

I, Glen L. Garratt , of 110 - 325 Howe Street, in the City of Vancouver, British Columbia do hereby state that:

- 1. I am a practising geologist and have been since 1972 after completing the requirements for a B. Sc. (Geology) at the University of British Columbia.
- 2. I am a member in good standing of the Association of Professional Engineers, Geologists and Geophysicists of Alberta and a Fellow of the Geological Association of Canada.
- 3. The work reported herein was carried out under my supervision; the conclusions and discussions of the data are a consensus of the authors' opinions.
- 4. I consent to the use of this report by the lines Ltd. YA fulfill the requirements of regulatory agencies. Excerpts or quotations or summaries from this report may only be used with my consent.

G. L. Garratt P. Geol., F.G.A.C.

Dated at Vancouver, British Columbia, this 15th day of September, 1989.

STATEMENT OF QUALIFICATIONS

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I, James William Morton, of 2750 Alma Street, Vancouver, British Columbia, do hereby certify:

- 1. I graduated from Carleton University, Ottawa, in 1971 with a Bachelor of Science on Geology.
- 2. I graduated from the University of British Columbia, Vancouver, in 1976 with a Master of Science in Soil Science.
- 3. I am a fellow of the Geological Association of Canada.
- 4. I supervised the work described in this report.

J. W. Morton M. Sc., F.G.A.C.

Dated at Vancouver, British Columbia, this 15th of September, 1989.

## APPENDIX 2

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## Certificates of Analyses and Analytical Method

#### GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3HL 3-1-2 HCL-HHO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 NL WITH WATER. THIS LEACH IS PARTIAL FOR MM FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA E AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TIPE: ROCK AU\*\* AMALTSIS BY FA+AA FROM 30 GM SAMPLE. HG AMALTSIS BY FLAMELESS AA.,

MINCORD EXPLORATION File # 89-1917

SAMPLE <b>‡</b>	No PPM	Cu PPN	Pb PPN	Zn PPN	Ag PPN	NI PPM	Co PPN	Nn PPN	Fe t	λs PPN	U PPM	Au PPN	Th PPK	ST PPM	Cđ PPN	Sb PPN	BÍ PPM	V PPN	Ca ł	P X	La PPM	CT PPN	Kg ł	Ba PPN	ti t	B PPN	A1 3	Ha t	I ł	W PPN	20** PP9	HG PPB
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#### GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAN SAMPLE IS DIGESTED WITH 3NL 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 NL WITH WATER. THIS LZACH IS PARTIAL FOR NN FE SR CA P LA CR NG BA TI B W AND LINITED FOR WA K AND AL. AU DETECTION LINIT BY ICP IS 3 PPM. - SAMPLE TIPE: COTE AU\*\* ANALTSIS BY FA+AA FROM 30 GN SAMPLE. HG ANALTSIS BY FLAMELESS AA. -

DATE RECEIVED: JUL 11 1989 DATE REPORT MAILED: July 17/89 SIGNED BY. C. J. D. TOTH, C. LIONG, J. WANG; CHATINED B.C. ASSAILES MINCORD EXPLORATION FILE # 89-2084

SAMPLES Mo Cu Pb Zn λđ Ni Co Хn Fe λs U Au Th ST C1 Sb Bi V Ca P La Cr Ma Ba 7i Al Na t ¥ Au\*\* Hg R PPM PPN PPM PPN PPN PPN PPN PPN PPN PPN 258 ł PPN PPN PPN PPN PPN PPN PPM ł 1 PPN ł PPN Ł PPN Ł PPN PPB Ł Ł PPR SW-AE-39-11 2 499 50 242 1.9 935 1.37 53 5 ND 5 23 68 .59 .047 10 .81 21 .03 10 .90 .02 26 6 4 11 2 7 .09 1 10 1 SW-A8-89-12 31 1039 15 120 .9 9 933 6.13 19 5 ND 6 9 1 2 2 88 .24 .043 6 6 . 34 25 .02 7 1.37 .01 .16 1 53 20 29 12 106 2.0 5 10 1157 5.90 5 ND Ę R 2 65 .26 .044 9 1.01 .05 SV-AB-39-13a 5 2166 4 1 2 6 8 1.46 . 01 .23 1 112 SW-AB-39-135 25 1959 5 37 2.7 6 3 566 5.77 10 5 ND é 14 1 1 2 33 .27 .028 ŝ 6 .38 19 .03 11 .98 .02 .16 1 155 5 3 248 1.52 25 5 NЮ 2 28 .68 .018 .27 25 SW-AE-99-14 2 80 2 16 .1 1 2 22 8 11 .01 5 .18 .03 .04 2 1 1 . SW-AB-89-15a 620 3.24 72 .78 17 .01 .32 .02 13 899 8 33 .6 9 9 143 5 ND 6 33 2 1.49 . 084 3 6 9 .05 6 10 SW-AB-39-15b 1 21 ł 38 .4 23 9 \$94 2.65 1 5 ND 3 126 t 4 2 54 5.29 .030 4 17 2.10 31 .01 18 .34 .02 .15 2 3 20 SW-AB-39-15a 5 2417 38 .5 18 628 3.75 309 5 ND 3 82 2 73 2.41 .074 12 10 1.25 62 .01 1 .21 .02 .05 30 4 4 1 2 1 SW-AB-89-16b 2 32 15 .2 3 3 263 1.76 10 5 ND 2 40 1 3 20 1.54 .013 7 6 .60 434 .01 13 .23 . 92 .09 1 5 5 4 2 3 SW-A8-39-16c 29 4034 37 .1 5 19 341 3.42 1133 13 ND 49 62 1.95 .057 8 6 .54 288 .01 15 .24 .02 .07 18 20 2 1 2 2 1 SV-38-89-16d 23 9462 10 64 5.7 15 701 2.64 2533 16 ND 106 7 2 38 6.40 .060 8 4 .40 51 .01 20 .40 .01 .16 2 101 5 2 1 SW-AB-89-17a 56 1411 5 9 1.0 3 2 140 . 69 16 5 ND 1 11 1 2 2 10 .18 .015 11 14 .06 54 .01 9 .14 .03 .05 1 -14 11 SW-AB-89-17b 357 289 12 .5 3 2 561 .86 4 5 ND 5 50 1 2 2 13 3.41 .034 12 8 1.11 693 . 01 .17 . 02 .05 1 - 5 • SW-AB-89-17c 13 1135 14 3 3 500 1.21 5 ND 6 42 2 2 13 2.65 .003 14 6 .65 46 .01 12 . 09 .02 .04 2 24 3 . 8 6 1 430 2.62 25 54 2.44 .055 12 2 .17 54 .01 16 .35 .02 SW-AB-89-17d 21 5 ND 5 .08 2 5 19 -45 4 .1 3 4 3 1 2 2 1 335 1.32 25 1.84 .25 155 .01 16 .35 .02 .06 SW-AB-89-17e 11 448 15 1 3 5 ND 6 39 2 2 . 025 9 3 -14 5 2 .4 SW-AB-89-15 11 4 46 .2 1 9 695 2.01 8 5 ND 3 176 1 2 2 11. 9.32 .062 15 8 .78 1449 .01 15. .28 .01 .10 4 7 1 64 34 3.72 .038 SW-AB-69-19a 3 326 1 33 .2 3 6 1180 2.25 25 5 ND 4 1 2 2 12 7 1.14 118 . 01 9 .24 .02 .06 2 21 50 6 .53 SW-AB-89-195 12 29 3 37 .1 4 1 305 2.17 9 5 ND 4 1 2 2 42 2.09 .043 9 25 .01 10 .40 .02 .09 1 6 5 5 .50 51 .05 9 566 550 5 ND 26 38 1.48 .050 11 .01 1 .26 .02 41 SW-AB-89-19c 21 1732 3 51 1.2 4 2.17 3 2 1 SW-AB-99-19d 16 2616 11 21 597 8.75 56 3 24 1.90 . 022 . 54 12 . 01 11 .25 .01 208 11 43 2.4 677 6 ND 1 1 45 9 10 . 06 1 ND .38 SW-AB-89-13e 55 1875 3 53 1.5 3 9 574 2.55 505 5 6. 40 1 2 2 50 1.23 .051 11 4 22 .01 12 .24 .02 .05 1 50 . ND 93. 19 4.51 .99 SW-AB-89-20a 75 414 4 17 .4 4 4 614 1.40 1 5 2 1 2 2 .025 4 1 151 .01 6 .23 .01 .06 1 55 .66 5 ND 45 2 44 2.47 .052 9 6 267 .01 9.39 .01 .07 - 5 SW-AB-89-20b 1 - 59 4 18 .1 4 5 383 2.05 4 1 1 2 2 2 37 50 18 18 19 .092 38 53 . 88 180 .07 34 1.96 .06 STD C/AU-R 59 42 132 6.7 69 31 1019 4.15 41 22 7 60 .49 .13 12 470 1400 18

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#### GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3NL 3-1-2 HCL-BHO3-H2O AT 95 DEG. C FOR OHE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MM FE SE CA P LA CE NG BA TI B W AND LIMITED FOR WA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TTPE: ROCE AU\*\* AMALYSIS BY FA+AA FROM 30 GM SAMPLE. HG AMALTSIS BY FLAMELESS AA.

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	DAI	'E RE	CEIV	VED:	10	L 13 1	989	DATI	E RE	POR	г ма	ILED	: J	nly	21	89.	i	SIGN	IED	ву.(			7	d. Tote	, C.LE	ONG, J	.WANG;	CERTI	FIID B	.C. ASS	SAYERS		
											MINC	CORD	EXF	LOR	ATI	<b>N</b>	Fi	le	# 89	9-21	22		1										
SAN	PLE	No PPN	Cu PPN	Pb PPN	2n PPN	λg PPN	NI PPH	Co PPH	Nn PPN	Pe 3	As PPN	U PPN	Au PPN	Th PPN	Sr PPN	Cd PPN	Sb PPM	Bİ PPN	V PPN	Ca ł	P S	La PPN	CT PPN	Ng t	Ba PPN	Tİ Ş	B PPN	41 3	Na ł	I ł	W PPN	Au** PPB	Hg PPB
SW-) SW-) SW-)	AB-89-21 AB-89-22 AB-89-23 AB-89-24a AB-89-24a AB-89-24b	4 3 1 64 49	109 15 36 129 900	5 10 3 2 4	76 47 53 17 7	.1 .1 .1 .1 .2	29 42 2 6 3	25 10 11 7 2	754	8.91 2.51 5.71 2.09 .47	43 9 40 8 325	5 5 5 5 5	ND ND ND ND	1 1 3 14	859 106 117 95 22	1 1 1 1	2 3 2 2 2	2 2 2 2 3	39	8.00 2.61 2.68 2.42 .75	.185 .058 .120 .062 .005	17 18 9 8 12	34 10	3.41 1.47 .70 1.04 .22	95 78 50 36 22	.01 .01 .04 .01 .01	23 21 9 4 5	.39 .94 .51 .28 .23	.02 .13 .03 .03 .02	.22 .13 .08 .13 .10	1 1 1 1	3 2 9 4 12	400 100
SW-) SW-) SW-)	AB-89-24c AB-89-24d AB-89-24e AB-89-24f AB-89-24f AB-89-25	2025 5 1190 1111 18	2071	2 2 3 5 7	13 39 30 37 33	.1 .1 .8 .6 .2	12 21 5 2 5	4 14 9 6 21	428 715	1.15 5.05 3.00 2.36 2.34	145 6 1636 787 9	5 5 13 16 5	ND ND ND ND ND	3 1 1 2 8	56 185 146 266 28	1 1 1 1	2 2 2 2 2	2 2 2 2 2	107 94 68	1.01 4.05 3.14 5.80 1.14	.016 .170 .065 .069 .051	4 10 8 13 11		.10 .72 1.64 2.36 .65	209 155 33 284 61	.01 .01 .01 .01 .06	2 14 4 14 10	.45 .94 .27 .19 .65	.04 .02 .03 .03 .03	.23 .22 .05 .06 .15	1 1 1 1 1	16 17 25 10 13	- 20 - 40 -
5¥-) 5¥-) 5¥-)	AB-89-25a AB-89-26 AB-89-26a AB-89-26b AB-89-26b AB-69-27	81 10	10597 * 347	2 21 7 8 16	31 406 35 37 25	.2 12.9 .1 .7 3.9	10 7 15 12 3	59 50 19 64 5	338 240 148	4.64 14.36 3.48 10.44 6.23	9 14 3 22 60	5 5 5 5 5	ND ND ND ND ND	9 2 6 4 1	53 80 12 11 3	1 3 1 1	2 2 2 2 2	2 2 2 2 8	33 40 57 30 1D	1.27 .54 .35	.054 .057 .056 .053 .034	11 9 10 7 2	-9 13 19 17 1	.43 .42 .87 .51 .06	35 8 34 9 20	.02 .03 .02 .02 .01	15 16 2 3 3	.50 1.37 .72 .56 .28	.03 .10 .02 .01 .01	.08 .17 .13 .15 .14	1 1 1 2	6 117 12 126 133	30
SW-1 SW-1 SW-1	AB-89-27a AB-89-27b AB-89-27c AB-89-27d AB-89-27d AB-89-27e	19 15 13 14 6	5257 646	8 8 13. 9 9	37 39 85 34 81	2.6 .8 4.1 .5 .7	5 2 4 3 5	7 6 11 4 5	490 473 378	5.86 6.27 4.99 3.84 2.72	23 25 562 7 10	5 5 5 5 5	U D D D D D	2 5 2 5 5	3 2 31 29 131	1 1 1 1	2 2 2 2 2 2	14 2 2 2 2	39 38 17 49 86	.15 .15 1.82 .42 .96	.046 .055 .019 .051 .057	3 4 2 5 6	7 8 6 8 15	.39 .76 .60 .83 1,05	19 27 11 41 76	.02 .04 .01 .07 .09	<del>د</del> 15	.62 1.03 .30 1.32 2.13	.01 .01 .01 .02 .06	.20 .35 .13 .26 .20	2 2 1 3 1	99 78 96 31 30	5 - - 10
5W 5W 5W	AB-89-27f AB-89-27g AB-89-27h AB-89-28 AB-89-28 AB-89-29	5	3956 966	5 4 1441 16 18	66 13 95 42 570	3.7 .1 14.9 1.8 .8	2 20 251 7 4	6 12 39 30 16	161 264 552	6.66 4.85 19.00 6.13 9.41	42 4 11 368 27	5 5 13 5	ND ND ND ND ND	3 5 1 5 3	2 30 7 35 19	1 1 1 2	2 2 4 3 2	2 2 27 2 2	20 46 72 29 12	.15 .31 .21 1.71 1.01	.058 .942 .013 .068 .056	5 2 2 4 4	6 7 10 7 5	.51 .32 .43 .39 .24	32 42 9 8 11	.03 .02 .01 .01 .01	26 2 2 8 7	.94 .82 .54 .33 .31	.01 .02 .01 .01 .01	.37 .21 .04 .14 .12	1 1 2 1 1	1081 9 61 20 72	- - - -
SV- SV-	AB-89-29a AB-89-30 AB-89-30a C/AU-R	8 11 6 18	21 38 505 59	9 25 25 40	58 538 631 131	.2 1.2 2.4 6.7	5 4 4 69	10 14 15 30	129	4.60 9.41 15.50 4.15	10 10 16 43	5 5 5 17	ם א סיג אם 7	6 6 3 37	39 9 19 49	1 2 2 18	2 2 2 15	2 2 2 21	20 9 25 60	2.02 .43 .24 .51	.045 .072 .065 .094	13 6 39	5 6 7 57	.31 .12 .26 .95	21 18 11 178	.01 .01 .02 .07	2 5 17 39	.56 .40 .54 2.07	.01 .01 .01 .06	.13 .15 .16 .14	1 1 1 12	36 79 288 505	5 10 - 1300

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SAMPLE#	Mo PPN	Cu PPM	Pb PPM	Zn 99%	Ag PPM	NI PPN	Co PPN	Nu PPN	Fe 3	AS PPM	U PPM	Au PPN	Th PPN	ST PPM	Cd ?PM	SD PPM	B1 PPM	y 29M	Ca 3	P	La PFM	CT PPN	ş Hû	Ba PPN	Tí t	B PPN	Al 2	Na S	R S	W PPN	Au** PPB	Hg PPB
	rrn	rra.	115					••••	•		• • • •			••••	••••		IIA		•	•					•	•••	•	•	•			
SW-AB-89-13c	6	1869	20	64	1.7	9	10	770	6.30	12	5	ND	6	6	1	2	24	48	.25	.047	7	4	.93	26	.05	3	1.30	.02	.19	2	37	5
SW-AB-39-13d	38	1902	20	82	2.1	2	10	941	6.03	29	ĩ	ND	6	8	1	3	11	59	. 41	.045	7	9	.90	36	. 85	2	1.37	. 02	.20	1	135	5
SW-AB-69-31	1	69	3	-14	.2	9	14	440	3.47	13	5	ND	2	212	2	2	2	112	4.01	.097	5	13	.79	60	.12	16	3.25	.20	.19	1	5	•
SW-A6-89-31a	3	111	4	48	.1	10	16	434	3.58	19	5	XD	2	204	2	2	2	105	3.24	.193	5	10	. 31	37	.13	21	2.70	.14	.14	1	!	•
SW-AB-69-32	6	132	48	37	.2	11	11	525	2.72	9	5	ND	2	140	1	2	2	69	3.02	.076	7	11	1.02	196	.03	18	.35	. 03	.05	1	2	•
				• -		_				-																		••	••			
SW-AB-89-32a	24	75	33	24	.2	I	6		1.92	5	ĵ	ND	Z	214	1	2	2	19	9.11	. 905	- 15		3.79	23	.01	2	.05	.01	.01	1	1	• .
SW-38-89-33	1	24	2	53	.2	7	15		3.59	20	5	ND	2	236	1	2	2			. 282	5	4	1.29	45	.01	9	2.52	.11	.15	1	9	•
SX-AB-89-34	13	385	15	41	.4	10	10	643	2.31	97	5	ND	9	74	1	2	2	29	2.12	.940	1	4	.35	75	.01	3	.20	. 02	.08	1	15	•
SW-AB-59-35	1	81	11	37	.1	3	12	642	3.88	11	5	ND	- 4	143	2	2	2	97	3.41	.106	13		1.11	127	.01	3	.36	.03	.05	1	4	•
SW-AB-39-36	1	19	1	17	.1	12	4	399	1.63	2	5	HD	2	48	1	3	2	27	2.47	.043	11	16	. 39	67	.01	4.	. 30	.02	.10	1	13	-
57-AB-89-35a	1	328	,	62	.2	99	29	173	4.75	23	Ę	ND	1	126	,	,	,	112	3.54	.137	,	155	3.77	55	.08	4	1.44	. 92	.64	1	16	30
S¥-AB-69-37	1	90	11	103	.1	16	28	1305	6.78	23	ç	ND	,	50	,	;	÷		4.01	. 090	ś		1.98	32	.02	å	.50	.02	.04	1	5	250
SW-AB-89-38	1	38		55	.1	19	14		3.90	17		ND	2	86	ì	2	,		3.54	.052	ţ		1.45	27	.01	15	.52	.02	.04	1	1	-
SW-AB-89-39	10	6522	2	27	.8	13	14	369	2.03	5	5	ND	7	26	;	÷	,	47	1.05	.047	n	4	.94	131	.04	1	.79	.03	.13	;	10	40
SW-AB-69-39a	-	2267	11	45	1.6	3	1		3.57	1	5	ND	, c	68	5	- 3	ŝ	71	2.36	.072	13	,	1.52	73	.07	1	1.20	.02	.17	1	11	20
3W-AD-07-374	10	2207	11	13	1.0		'	214	3.37	1		A 12	ų	ve	•	1		11	2.30		1.3		1.32			'	1.40	.02	• • •	•	11	20
SW-AB-89-39b	11	179	2	14	.1	Ą	4	277	1.44	2	5	ND	1	17	1	2	2	25	1.15	.025	ĝ	3	.40	11	.01	11	. 62	. 03	. 05	1	11	5
SW-AB-89-39c	5	541	6	19	.2	5	6	259	2.39	5	5	ND	4	35	1	2	2	52	1.13	.051	9	4	.56	63	.03	7	.72	.03	.05	1	19	30
S¥-A8-89-39d	8	208	15	14	.2	3	4	219	1.72	2	5	ND	3	42	1	2	2	38	1.19	.046	8	14	. 38	99	,06	5	.56	. 04	,05	1	5	5
SW-AB-89-39e	48	1238	3	18	.5	4	4	577	2.01	2	5	ND	5	80	i	2	2	56	2.55	11.952	9	4	. 56	187	.09	6	.76	.03	.06	2	16	20
71 <b>A</b>	74	722	10	23	2.2	6	24	184	5.87	13	5	ND	5	8	2	3	16	23	. 29	.057	6	4	. 40	5	.01	2	. 59	.01	.16	1	86	50
			• •	30		•	٥	***	1 60	• •	ŗ	WD	•	57	,	•	10	62	1.27	.074	12	E	.97	123	.04	26	. 86	63	00	,	26	£
T1B	14	800	12	39	.6	11	8	400	2.99	11	2	ND	1	57	1	2	10	63 122			13	11				26		.03	.09	1	36	5
SW-AB-89-31b	1	108	2	46	.1	11	16	454	4.04	0	1	ND		71	1	4			2.19	. 102	1	14 55	1.05	11	.21		1.19	.04	.08	1	21	10
STD C/AU-R	18	59	41	126	6.6	67	31	1013	4.10	40	23	1	37	49	29	15	20	59	.30	.093	38	33	. 74	165	.07	40	1.92	.07	.14	11	490	1400

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MINCORD EXPLORATION PROJECT SWAN PROJECT FILE # 89-2303

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SANPLE\$	No PPN	CU PPN	РЪ ??Ж	Za PPN	λg PPN	¥1 PPM	CO PPN	Na PPN	?= 1	As PPH	U PPM	Au PPN	Th PPM	ST PPN	Cd PPM	Sb PPM	Bİ PPM	V PPN	Ca ł	Р 3	La PPN	CT PPN	Xg ł	Ba PPN	71 1	8 1999	A1 3	Ha t	r ł	¥ PPM	AU** PPB	HG 299	
SW-AB-89-40	29	167	2	43	.6	5	9	235	2.17	11	5	YD	1	120	1	3	3	66	1.02	.161	5	4	.64	16	.10	2	1.15	.02	.05	1	1		
SW-AB-39-41	1	41	6	40	1.0	- i	1	579	1.99	ii	5	ND	- i	152	1	15	ž		2.70	.037	9	13	. 81	39	.01	Ē	. 30	.03	.05	i	16	•	
SW-AB-39-41A	2	6	6	23	.2	5	Ì	507	1.98	6	5	ND	3	101	1	2	ž	42	2.23	.044	8	4	.17	47	.01	6	.35	.03	.05	ī	5	30	
SW-AB-89-41B	ī	12	8	48	.3	2	Ś	862	2.26	i.	5	HD	3	107	1	2	2	15		.034	10	13	1.15	48	.01	2	.29	.04	.05	ī	15	10	
SW-AB-89-42	3	8	ł	36	.3	3	5	600	2.25	21	5	ЯD	3	149	1	2	2	49	3.37	.037	9	4	.32	91	.01	13	.14	.02	.05	1	1	•	
ST-AB-19-13	1	25	2	57	.2	4	5			11	5	ND	6	67	1	2	2		2.91	.058	14	9	. 60	68	.01	1	.34	.02	.06	1	2	5	
SW-AB-39-13A	4	21	- 4	112	.2	6	1	826	2.45	10	5	ND	6	43	1	2	2	49	3.03	.962	13	4	.09	36	.01	6	.46	.02	.07	1	2	•	
SV-28-39-43B	2	19	2	66	.1	5	11	816	2.91	17	5	ND	<b>S</b> .	96	1	2	2		2.93	.046	8		1.23	20	.01	5	.25	.02	. 09	1	11	-	
SW-AB-39-44	1	35	2	50	.2	23	8	506	3.66	1	5	ND	2	96	1	2	2	97	1.15	.056	1	40	.41	125	.03	13	. 69	.02	.11	1	1	40	
SV-AB-29-45	I	74	3	43	.2	9	9	1008	2.99	3	5	ND	6	103	1	2	2	64	2.19	.068	12	8	.95	42	.01	1	.48	.03	.07	1	1	-	
SW-38-89-46	- 3	48	5	23	.2	5	12	554		4	5	ND	6	39	1	2	2		1.60	.041	10	14	.48	41	.01	2	.30	.03	.07	1	6	•	
S¥-AB-89-46A	2	8	2	17	.1	3-		454	2.21	1	5	ND	6	32	1	2	2		1.71	.044	11	4	.15	35	.01	11	.42	.02	.06	1	1	•	
SW-AB-59-46B	2	26	2	24	.2	1	1	550	2.50	16	5	ND	4	45	1	2	2	41		.055	12	5	.19	105	.01	17	.49	.04	.12	1	6	•	
ST-78-93-46C	4	15	9	34	.2	1	8	570	3.94	12	5	ND	3	107	1	2	2		1.08	.051	11	13	.46	36	.01	1	.59	.02	.15	1	6	•	
SW-AB-39-47	3	· 29	2	52	.2	5	1	843	2.54	23	5	ND	4	70	1	2	2	48	1.89	.055	11	5	.43	51	.01	2	.31	.02 .	.06	1	1	•	
SV-16-49-48	t	62	1	25	.1	3	9	555	2.40	5	5	ND	4	45	1	2	2	44	3.24	.081	14	10	.19	120	.01	I	.55	.02	.13	1	4	10	
5W-AB-39-49A	1431	289	880	28	8.0	6	9	472		9	5	ND	1	47	4	2	36	54		.014	279	5	.07	15	.01	17	.24	.01	.09	1	29	20	
S¥-28-89-48B	2	24	2	29	.1	19	11	477	4.59	9	5	HD	1	112	1	2	2	81	1.57	.154	3	39	2.13	26	.18		1.94	.02	.11	2	1	10	
SW-AB-39-49	1	21	7	49	.5	5	3	446		2	5	DK	1	28	1	3	2	54	.72	.052	13		.13	66	.01		.89	.02	.06	1	5	-	
SW-AB-89-50	11	9704	1	181	1.6	14	6	440	4.25	3	5	XD	3	34	2	2	12	58	2.18	.057	8	6	1.28	54	.10	1	1.05	.03	.27	1	51	•	
SW-AB-69-51	1	215	1	41	.3	29	6	363	2.16	13	5	ND	1	70	1	2	2	28	3.10	.045	15	14	1.39	20	.01	30	.58	.04	.03	1	1	380	
SW-AB-59-52	8	1809	1	11	2.1	2	8	996	6.40	34	5	ND	7	1	1	3	3	- 45	.36	.047	1	- 4	.94	35	.05	6	1.54	. 02	.31	1	120	5	
SW-AB-99-53	69	1138	57	2859	1.8	6	5	1080	2.46	2	5	ND	5	21	10	2	9	66	.63	.038	1	4	. 59	57	.04	2	.90	.05	.17	1	368	-	
SWG-89-1	1	274	72	1238	.9	1	1	2340	4.41	80	5	ND	2	141	5	2	9	54	9.95	.001	2		2.43	95	.01	6	. 16	.01	.04	1	115	30	
S¥Ğ-89-2	6	2984	13	251	6.7	3	9	1697	6.60	9	5	ND	6	35	2	2	11	62	1.57	.062	10	3	1.28	46	.03	3	1.82	. 02	.22	1	76	-	
SVG-89-3	1	15	2	108	.1	6	2	493	2.79	10	5	ND	f	368	2	2	2	28	16.22	.011	2	6	7.91	32	.01	1	.15	.02	.01	1	4		
58-89-X1	12	1641	2	18	.1	2	3	235	2.13	2	5	ND	3	43	i	i	2	41	1.14	.056	9	4	.51	97	.04	13	.82	.04	.06	i	42	-	
SW-89-42			1	35	1.1	ŝ	10	530	3.08	6	ŝ	ND	5	10	1	2	ž	81	1.34	.074	13		1.24	167	.06		1.04	.01	.14	ī	12	10	
S¥-89-83	1	370	2	14	.3	24	30	298		e e	5	ND	1	8	i	2	2	136	.12	.012	2		1.27	59	.01		2.28	.03	.04	i	4	-	
38-63-43	1	210	2	13		41		630	3.31	U			•	•	•	•					•					,	-	-		•		4.5	
SW-89-MR-15	:	1	2	4	.1	14	1	25	. 22	2	5	¥D	1	39	1	2	2	1	28.55	.004	2		2.35	17	.01	2	.02	.01	.01	1	1 2	âø 30	
S¥-89-XR-15	1	5	2	25	.1	974	43	504	3.08	2	5	ND	1	76	1	2	2	6	3.82	.001	2	178	14.25	22	.01	18	.04	.01	.01	1	4		
58-39-48-17	1	1	2	í	.1	5	1	:1	.07	2	5	ND	ĩ	112	1	2	2		39.99	.005	2	1	.15	35	. 91	3	.01	.01	.01	1	8	129	
58-39-82-19	10	561	2	54	2.9	17	13		7.45	47	5	ND	1	5	1	2	3	21	.10	.260	3	20	.15	14	.01	3	.63	.01	.22	1	198	10	
58-33-48-19	1	32	4	63	.1	1	6	1222	3.57	3	5	ND	2	19	1	2	2	\$2	. 66	.094	10	13	1.26	338	.01	3	1.34	.02	.07	L	5	29	
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ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3NL 3-1-2 HCL-HHO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 NL WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PFN. - SAMPLE TYPE: ROCK AU\*\* ANALYSIS BY FA+AA FROM 30 GM SAMPLE. HG AMALYSIS BY FLAMELESS AA.

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SANPLE	No PPN	Cu PPM	Pb PPM	Zn PPM	Ag PPN	NI PPM	CO PPN	Mn PPM	Fe 3	As PPN	U PPN	Au PPN	Th PPN	ST PPM	Cđ PPN	Sb PPM	Bİ PPM	V PPN	Ca t	P ł	La PPM	CT PPM	Kg S	Ba PPM	71 }	B PPN	A1 3	Na ł	K t	W PPN	Au** PPB	Hg PPB
SW-AB-89-54	6	49	112	173	1.0	3	5	304	2.32	5	5	ND	3	20	5	2	2	39	1.45	.047	5	4	. 62	64	.04	2	.69	.01	.08	1	27	•
5 <b>#-</b> AB-89-55	2	3455	10	174	10.0	3	13	1680	8.32	24	5	ND	6	49	2	2	11	68	.46	.052	1	2	2.26	21	.13	9	2.62	.03	. 20	1	119	10
SW-AB-69-56	3	130	8	62	.3	5	7	665	3.38	- 4	5	ND	6	39	1	2	2	75	1.17	.074	13	4	.94	69	.09	4	.93	.04	.10	1	- 14	•
SW-AB-89-57	4	4161	6	53	2.6	4	15	439	4.70	119	5	ND	9	35	1	2	17	54	1.94	.048	10	2	. 64	49	.03	12	1.10	.02	.11	1	67	•
SW-AB-89-59	3	235	2	22	.3	5	9	425	2.35	5	5	ND	6	\$5	1	2	2	47	2.32	.065	15	4	. 42	40	.05	3	.64	.03	.13	1	8	•
SW-AB-89-59	1	192	111	119	, ,	39	11	1296	3.78	10	5	ND	1	123	1	,	1	129	7.38	.079	ç	124	2.13	94	.03	4	1.44	. 02	.08	t	15	•
SW-AB-29-60	4	797	••••	41		1	ŝ	487	2.74	3	ŝ	ND	ţ	62	1	;	,	58	2.34	.072	12		.47	30	.04	5	.66	.03	.11	1	29	
SW-AB-89-61	10	1031	2	10	1 0	ŝ	16	574	3.01	12	ŝ	ND	5	113	1	;	;	60	1.56	.070	4	i	.99	42	.13	ż	1.33	.03	.12	1	57	ç
SW-AB-39-62		2427	14	78	1.5	i	10	384	1.11	12	į	ND	1	59	1	;	11	56	1.20	.054	á	10	.60	63	.11	;	.54	.04	.08	Ť	25	-
SW-AB-39-53		1356	70	2523	3.9	5	12	903	4.34	1	ŝ	ND	í	34	10	;	16	65	1.59	.036	n	1	.78	30	.02	;	.79	.02	.13	1	701	-
3#-R0-03-93	25	1,1,0	70	<i>436</i> 0	4.9	,	12	303	1.31				ï	74	10	•	10	0.5			••	•				•				•	/01	
SW-AB-59-54	8	384	27	177	.5	5	5	833	4.01	5	5	ND	6	11	1	2	2	59	.24	.041	6	10	.79	40	. 04	2	1.07	.02	.28	1	30	•
SW-AB-09-65	14	1926	117	505	2.9	4	12	1796	5.53	13	5	ND	6	26	3	2	2	87	. 16	.049	9	4	1.14	61	.13	8	1.91	.02	.37	1	112	-
SW-AB-89-66	4	874	6	48	1.0	4	9	533	3.83	8	5	ND	7	80	1	2	2	63	1.40	.077	10	12	1.15	36	.12	1	1.36	.04	.14	1	42	5
SW-AB-39-67	1	121	3	28	.3	5	1	521	3.16	1	5	ND	5	66	1	2	2	70	1.69	.097	14	4	. 35	51	. 01	3	. 16	. 03	. 08	1	25	5
SW-AB-69-68	1	190	2	39	.1	14	13	379	4.06	1	5	ND	1	116	1	2	2	139	2.03	.134	8	39	.78	117	.14	5	. 95	.03	.16	1	15	5
									<b>.</b>		_													••								
SW-AB-89-63a	1	302	2	34	.4	27	17	293	5.24	2	5	ND	1	160	1	2	2		2.63	.169	3	69	1.31	70	.13	9	1.34	.06	.09	2	14	•
STD C/AU-R	17	50	-37	131	7.1	68	31	949	4.06	40	18	6	37	49	19	16	22	58	.51	.090	38	55	. 89	176	.07	32	1.88	, D <b>G</b>	.14	11	490	1300

MINCORD EXPLORATION PROJECT SWAN FILE # 89-2431

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SANPLE <b>}</b>	Ho PPM	Cu PPM	P <u>b</u> 29M	Zn PPM	lg PPM	N1 PPN	CC PPM	NC ?PM	Fe	AS PPN	U PPM	Au PPM	Th PPN	sr PPn	Cd 22H	Sb PPN	Bi 2PM	V PPX	Ca \$	P S	La PPN	Cr PPM	Ng t	3a PPN	71 1	B PPM	A1 1	Na 1	r ł	W PPN	Au** ?PB	(30 gin).
SW-89-C15 SW-89-C17 SW-89-C17 SW-89-C17 SW-89-C13 SW-AB-89-65	1 4 16 68 2	55 375 86 3804 155	4 7 14 7 3	33 240 260 39 23	.1 .7 2.? 1.9 .1	25 2 6 3	12 7 13 9 5	841 132 431	2.12 2.83 9.57 4.08 2.27	10 2 25 5 2	5 5 5 5 5	HD ND ND ND ND	1 7 5 3	101 69 30 29 36	1 1 1 1	2 2 2 2 2	2 2 3 7 2	79 34 12 31 56	1.10 1.40 .26 .72 .57	.126 .352 .034 .051 .073	5 13 5 12 8	74 7 7 7 11	.74 .75 .19 .51 .45	32 40 15 25 100	.13 .02 .01 .02 .10	4 3 17 2	.98 .92 .50 .94 .65	.02 .02 .01 .02 .03	.17 .11 .17 .19 .07	1 1 1 1	5 44 221 77 7	
SW-AB-89-70 SW-AB-89-70 SW-AB-89-70 SW-AB-89-70 SW-AB-89-70 SW-AB-89-70		111 108 67 92 59	2 4 4 2 7	34 45 49 44 43	.1 .1 .1 .2	12 10 9 9	15 12 15 13 14	497 538 400 452	4.26 3.71 4.09 3.52 5.72	13 3 8 3 7	5 5 5 5 5	ND NC ND ND ND	1 1 1 1	196 123 158 101 203	1 1 1 1	2 2 2 2 2 2	2 2 2 2 2	123 119 120 113 119	3.41 2.21 2.03 3.30	.195 .093 .094 .099 .091	4 5 5 5 5	24 17 13 16 18	.85 .61 .77 .77 .93	75 39 57 40 20	.13 .18 .15 .19 .20	8 16 7 10	2.40 1.87 1.58 1.15 2.44	.13 .07 .07 .03 .11	.17 .13 .15 .10 .12	1 1 1 1 1	14 14 5 7 16	
SW-A5-89-71 SW-A3-83-72 SW-A5-59-73 SW-A5-89-74 SW-A5-89-75	1 1 15 1	33 105 52 421 17	4 13 10 5 5	55 55 116 98 20	.1 .1 .2 .3 .1	20 169 21 6 5	13 33 12 3 6	507 922 297	3.18 3.71 5.75 1.14 2.40	5 3 12 3	5 5 5 5 5 5 5 5	ND ND ND ND ND	9 1 6 7	119 937 126 16 42	1 1 1 1	2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	86 53 91 65 61	6.45 4.05 4.13 .19 .46	.050 .215 .078 .033 .063	29 13 11 8		1.16 3.00 .96 .06 .40	96 1040 84 65 59	.01 .17 .01 .01	9	1.12 2.19 1.15 .32 .76	.02 .04 .02 .02 .02	.07 1.14 .14 .07 .06	1 1 1 1	324422	
SW-AB-39-75 SW-AB-29-77 SW-AB-29-73 SW-AB-29-73 SW-AB-29-735 SW-AB-89-735	1 2 111 272	232 19 56 105 47	10 2 25 24	404 27 42 35 39	.9 .1 .7 .9	15 4 7 4 5	27 7 19 7 7		3.29 2.73 2.39 2.55 2.81	18 3 4 2	5 5 5 5 5	ND ND ND ND ND	1 5 2 2 1	5 19 100 157 98	1 1 1 1	2 2 2 2 2 2	2 2 2 2 2	80 40 63 53 67	.17 .95 1.32 3.29 2.35	.089 .056 .270 .062 .073	5 16 12 9 13	54 9 14 13 11	1.42 .61 .67 .92 .52	13 201 142 105 136	.03 .01 .01 .01 .01	2 2 3 7 9	2.39 .58 .74 .39 .60	.01 .02 .02 .02 .02	.44 .10 .07 .09 .11	1 1 1 1	107 3 55 109	
SW-AB-59-782 SW-AB-29-79 SW-AB-89-90 SW-AB-89-91 STD C/AU-R	210 1 1 1 1B	163 39 38 45 58	20 2 2 4 40	48 29 26 23 132	.9 .1 .1 .1 5.7	7 4 2 3 68	11 9 8 9 30	519 416	2.89 3.32 3.34 3.46 4.05	5 2 2 39	5 5 5 18	ND ND ND ND 7	3 1 1 38	87 110 94 88 50	1 1 1 17	2 2 2 2 14	2 2 2 3 22	52 76 84 112 59	1.88 1.04 .76 .99 .47	.067 .135 .124 .147 .090	10 9 6 39	12 6 4 5 54	.72 .52 .42 .38 .93	40 57 37 59 179	.01 .12 .97 .12 .07	5 3 2 2 33	.46 1.06 .90 .92 1.94	.02 .02 .02 .04 .06	.14 .07 .07 .10 .13	1 1 1 1	63   4   7   5 480	

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#### GEOCHEMICAL ANALYSIS CERTIFICATE

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ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HMO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MM FE SR CA P LA CR MG BA TI B W AND LIMITED FOR MA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: COTE AU<sup>±+</sup> AWALTSIS BY FA+AA FROM 30 GM SAMPLE. HG AWALTSIS BY FLAMELESS AA.

DATE RECEIVED: JUL 21 1989 DATE REPORT MAILED: July 20/39 SIGNED BY. C. . . D. TOTH, C. LEONG, J. WANG; CERTIFIED B.C. ASSATERS MINCORD EXPLORATION FILE # 89-2348

SAMPLE‡	Mo PPN	Cu PPN	Pb PPM	2n PPM	Ag PPM	NI PPM	Co PPN	Ma PPN	Fe t	ÀS PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cđ PPM	SD PPM	Bİ PPM	V PPM	Ca 3	P Ł	La PPN	Cr PPN	Hg t	Ba PPN	Ti ł	B PPN	Al 3	Na Ł	K ł	W PPM	Au** PPB	Hg PPB
SW-89-C1	31	816	5	32	1.0	5	31	91	13.22	17	5	ND	6	262	1	2	2	19	.35	.064	3	3	.19	26	.03	18	.56	.02	.17	2	151	50
SW-89-C2	44	1275	3	44	3.3	4	8	539	5.56	22	5	ND	5	34	1	2	5	- 41	. 97	.048	13	3	. 89	41	.03	2	1.23	.01	.16	1	119	20
SW-89-C3		1223	4	134	. 8	6	1	949	3.44	13	5	ND	1	91	1	2	2	69	. 87	.049	13	4	.83	50	.03	3	.91	.05	.25	1	31	10
SW-89-C4	1	11	3	35	.1	35	- 14	321	2.99	32	5	ND	1	120	1	2	2	11	.97	.137	6	81	. 92	42	.11	6	1.02	.04	.21	1	5	20
SW-89-C5	10	2459	38	54	1.8	8	5	834	4.40	12	5	ND	5	67	1	2	6	50	1.52	.048	13	4	.79	66	.02	10	.96	.02	.16	1	45	5
•••••																																
SW-AB-C6	ś	481	9	57	.5	8	13	389	3.40	38	5	ND	5	103	1	4	2	56	1.49	.065	8	4	.61	55	.07	8	. 99	.04	.09	2	17	50
SV-89-C7	23	1762	4	72	1.5	6	1	770	2.38	50	5	ND	4	43	1	2	2	33	1.51	.046	10	3	.65	97	.01	8	.29	.02	.15	1	57	30
SW-89-C8		2908	1	37	1.1	5	S	598	5.15	138	5	ND	6	43	1	2	12	37	. 80	.050	6	2	.57	35	.01	13	. 57	.01	.23	2	49	5
SW-89-C9		2720	3	123	2.1	3	Ś	327	4.19	45	5	ND	5	90	1	11	2	43	1.93	.050	7	3	. 45	75	. 02	13	1.04	.01	,33	1	71	70
SW-89-C10		1980	1	70	1.7	3	9	548	4.64	14	5	ND	1	111	1	2	16	65	1.02	.070	6	3	1.16	37	.11	6	1.65	.05	. 21	1	86	19
		•																														
SW-89-C11	29	4265	36	424	3.7	4	50	1048	7.19	15	5	ND	5	90	2	2	12	54	2.11	.044	13	2	.66	21	.03	6	.81	.02	.17	1	123	20
SW-89-C12	10	2935	7	44	1.2	5	1	759	3.32	29	5	ND	5	55	1	3	2	67	1.17	.057	11	4	.91	53	.03	10	.97	.03	.16	1	48	10 '
SW-89-C13	6	308	6	31	.3	5	8	409	2.78	11	5	ND	8	64	1	2	2	40	. 85	.049	9	4	.84	57	.94	5	.86	.02	.09	3	18	5
58-89- 614	q	582	ŝ	62	ŝ	7	22	111	5.61	9	5	ND	3	64	t	3	2	98	2.09	.090	9	4	1.52	44	.06	6	1.51	.02	.16	1	20	20
SW-89-C 15	í	589	;	59	.9	8	ß	847	3.49	61	5	ND	4	40	1	2	2	33		.050	8	3	. 68	67	.01	11	.29	.02	.15	1	19	10
14 07 013	1		•			v	•				•		•		•	•	•				•	-								-		
STD C/AU-R	18	62	43	132	6.3	70	31	1049	4.11	44	20	1	37	51	18	15	18	62	.52	.089	40	57	. 93	194	.07	38	1.99	.06	.13	12	505	1400

ACME ANALYTICAL LABORATORIES LTD.

#### GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3HL 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR MA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: P1-P4 SILT P5 ROCE AU\*\* AMALTSIS BY FA+AA FROM 10 GM SAMPLE.

DATE RECE	IVED	:	JUL 19	1989	DA	TE	REPO	RT	MAIL	ED:	Ą	ly	28	1 89	SI	GNEI	) BY	Ċ	<u> </u>	·,	D.T	OTE, C	. LEONG	, J.WA	NG; CI	RTIFIED B.	. Assa	YERS		
				MI	NCO	RD E	XPLO	ORAT	TION	PRO	JEC	r sw	AN	PROJ	ECT	F	ile	# 8	9-2	303 <sup>1</sup>	, 1	Page	1							
SAMPLE	NC PPN	Cu ?PN	Pb PPM	Ze PPH	Ag PPN	Ni PPM	CC PPM	Ma Ppy	Fe 3	A5 PPN	IJ	Au PPM	Th PP4	Sr PPN	Cđ PPM	Sb PPM	Bi PPM	V PPM	Ca ł	P	La PPN	Cr 99M	Hg 1	Ba 29%	Ti 3	K 8 1995		-	¥ PPN	10** ??8
C++55% 1+302 0+95% 2+302 0+95% 2+802 0+95% 4+808 0+95% 5+802	3	66 57 63 72	16 14 10 14 11	9E 78 53 81 91	.1 .1 .1 .1 .2	38 42 36 37 37	13 13 12 13 14	590 672 727	2.31 4.02 3.75 4.25 4.72	6 4 7 11 9	5 5 5 5 5 5	סא סא סיי סיי	1 1 1 2	54 51 54 55 32	1 1 1 1	2 2 2 3 2	2 3 2 2 3	77 35 77 95 106	.72 .69 .71 .71 .71	.096 .106 .106 .106 .118	11 11 11 11 11	57 52 54 60 64	.57 .55 .53 .51 .50	254 237 260 254 225	.04 .04 .04 .04 .04	7 1.30 4 1.25 4 1.34 4 1.25 2 1.20	.01 .01 .01	.07 .07 .07 .07 .07	2 1 1 1 1	42 4 112 4 9
6+95N 6+00Z 6+55N 7+0CE 0+95N 3+00E 0+95N 9+30E 0+95N 19+30E	3 3 4 5	69 63 59 62 89	12 12 13 12 25	90 75 76 91 105	.1 .1 .1 .2	34 34 32 36 37	12 11 11 12 12	661 634 791	1.11 3.52 3.13 3.13 3.13	3 7 6 5 7	5 5 5 5 5	ND Hd NC ND ND	1 1 2 1	62 53 55 60 62	1 1 1 1	2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	67 74 65 63	.92 .55 .65 .68 .76	.114 .099 .089 .084 .093	12 11 10 11 11	52 52 50 48 48	.54 .51 .53 .55 .55	278 244 255 309 344	.04 .05 .04 .04 .03	5 1.37 2 1.29 5 1.29 4 1.47 8 1.61	.01 .01 .01 .01 .01	.07 .07 .07 .03 .08	1 1 1 1	16 25 15 7 35
6+53N 11+505 0+35N 12+302 6+55N 13+005 5+95N 14+805 0+55N 15+008	4 3 3 3 2	59 30 69 53 54	16 14 19 17 14	95 91 94 92 84	.1 .5 .3 .1 .1	34 15 39 25 33	11 13 11 12 12	850 505 995	3.49 3.41 3.20 3.67 2.34	4 5 9 5 4	5 5 5 5 5	ND ND ND ND	1 - 2 1 1 1	59 54 52 51 57	1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 3 2 2	72 71 52 77 77	.60 .73 .72	.095 .088 .092 .092 .090	11 11 11 11 10	49 47 46 49 47	.51 .53 .55 .51 .50	257 241 321 307 277	.04 .04 .03 .04 .04	2 1.44 7 1.36 2 1.63 6 1.43 2 1.30	.01	.07 .35 .08 .07 .07	1 1 1 1	1422 7 7 3 4
0+95H 16+002 SOUTH TRIB G+95H 16+002 MAIN CK O+95H 17+003 D+95H 17+003 MAIH CK J+95H 13+005	5 4 4	114 59 108 58 114	21 17 12 14 21	139 102 125 89 139	.4 .1 .3 .2 .5	39 38 37 36 40	13 14 11 12 11	1467 640 639	3.94 2.32 3.71 3.24 3.50	9 7 7 10 10	5 5 5 5 5	ND CX DX DX DX	1 1 1 1	79 72 75 59 30	1 1 1 1	2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	79 71 72 63 62	.84 .32 .53	.110 .093 .107 .096 .105	13 11 12 12 12	47 44 43 43 46	.61 .54 .56 .51 .59	398 381 382 300 436	.03 .04 .03 .03 .03	7 2.22 2 1.55 2 2.08 4 1.48 3 2.30	.01 .01 .01 .01 .01	.10 .07 .09 .07 .10	1 1 3 1	3 2 5 8 7
0+305 1+0CE 0+305 2+008 0+305 3+308 0+305 4+008 0+305 4+008 0+305 5+008	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	47 48 46 59 56	16 7 13 11 12	55 63 52 63 61	.1 .1 .3 .2 .1	41 53 43 46 42	10 11 12 11 9	468 494 471	2.50 2.36 2.52 2.91 2.54	7 9 9 7 7	5 5 5 5 5	ND ND ND ND ND	1 1 2 1 1	25 30 30 34 32	1 1 1 1	2 2 2 2 2	2 3 2 2 2	47 50 43 50 48	.41 .40 .44	.043 .049 .047 .047 .043	11 10 10 11 11	63 68 56 53 59	.52 .62 .55 .57 .52	138 161 176 212 191	.05 .04 .04 .04 .04	2 .93 3 1.06 2 1.11 4 1.27 5 1.17	.01 .01 .01 .01 .01	.06 .06 .07 .07 .07	1 1 1 1	3 7 53 2 106
0+3CS 6+0CK 0+3DS 7-00E 3+3OS 8+90K 1+955 2+0GE 1+955 3+00E	2 2 3	65 59 63 37 33	15 19 17 9 8	63 70 78 59 62	.1 .2 .1 .1	48 53 54 38 42	10 10 10 10	487 523 366	2.67 2.33 2.31 3.20 3.00	9 7 7 8 7	5 5 5 5 5	ОИ ОИ ОИ ОИ	1 1 1 1	37 37 39 25 39	1 1 1 1	2 3 2 2 3	3 3 2 2 3	43 49 47 72 50	.48 .49 .47	.046 .052 .050 .065 .056	11 11 11 E 9	58 63 60 65 62	.58 .57 .60 .53 .54	224 227 251 127 152	.04 .04 .03 .05 .05	5 1.33 2 1.34 5 1.43 6 .94 2 1.00	.01 .01 .01 .01 .01	.07 .08 .07 .06 .06	1 1 1 1	4 7 12 2 1
1+955 4+002 1+955 5+603 1+955 5+802 1+955 7+802 1+955 8+802	2 2 2 2 3	45 51 46 53 53	5 12 7 11 11	64 74 75 77 79	.1 .1 .1 .1	43 58 25 38 34	12 13 12 11 10	690 547 548	2.39 3.02 3.31 3.01 3.22	9 8 4 5 7	5 5 5 5 5	0И 0И Си 0И 0И	1 1 1 1 1	46 47 57 55 67	1 1 1 1	2 2 2 2 2 2	2 4 2 2 3	59 55 73 55 75	.54 .53 .70	.063 .962 .073 .980 .086	9 10 9 10 10	62 64 53 49 48	.60 .67 .57 .54 .52	179 178 201 225 125	.04 .05 .04 .04 .04	5 1.14 7 1.18 2 1.30 2 1.47 3 1.49	.01 .01 .01 .01 .01	.06 .07 .06 .07 .07	1 1 1 1	22 9 21 25 6
1+955 9+002 STD C/AV-5	2 15	18 59	14 40	79 132	.1 7.1	12 58	10 30		1.24 1.11	5 36	5 19	ND 7	1 37	65 19	1 17	2 15	2 17	i9 59		.091 .087	10 38	46 55	.51 .37	227 175	.04 .97	10 1.46 33 1.96	. 91 . 06	. 37 . 13	1 11	45 51

MINCORD EXPLORATION PROJECT SWAN PROJECT FILE # 89-2303

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SANPLE#	No PPN	Cu PPN	Pb PPN	Zn PPM	Ag PPN	NI PPN	Co PPM	Hn PPN	Fe 1	As PPN	U PPN	Au PPN	Th PPN	ST PPM	Cd PPH	Sb PPN	Bİ PPN	V PPN	Ca 3	P ł	La PPN	Cr PPN	Ng Z	Ba PPN	Ti ł	B PPN	۸1 ۲	Na ł	I ł	W PPM	λu≠≠ PPB
1+955 10+008 1+955 11+008 1+955 12+008 1+955 13+008 1+955 14+008	2 3 2 3 3	47 50 51 61 58	9 11 16 11 13	77 73 87 101 90	.3 .2 .2 .2 .1	34 46 31 34 33	10 11 11 11 11	1618 567 680	2.93 2.97 3.16 3.26 3.19	8 9 9 6	5 5 5 5 5	ND ND ND ND ND	2 2 1 2 1	67 59 74 90 81	1 1 1 1 1	2 2 3 1 3	2 3 2 2 4	63 58 72 69 70	.70 .69 .75 .90 .82	.083 .083 .084 .088 .088	10 11 10 11 11	45 45 45 45 43	.51 .50 .50 .58 .55	225 220 244 306 283	.04 .04 .04 .04 .04	4 2 2	1.50 1.43 1.57 1.90 1.73	.01 .01 .01 .01 .01	.07 .07 .07 .09 .08	1 1 1 1	10 6 3 32 8
3+305 3+008 3+305 4+0DE 3+305 5+008 5+305 3+008 5+305 4+008	2 2 2 2 2 2	57 65 66 82 52	10 11 10 13 6	80 64 57 71 66	.1 .1 .2 .1 .1	63 45 39 58 61	15 12 11 13 12	541 438 487	3.34 3.40 3.03 3.46 3.19	13 9 6 13 13	5 5 5 5 5	KD ND ND ND ND	2 1 2 2 2	44 57 55 46 40	I 1 1 1 1	2 2 2 2 2	2 2 2 2 2	50 74 68 68 61	.56 .77 .70 .66 .55	.055 .078 .069 .069 .065	12 10 10 11 11	59 67 57 72 74	.65 .61 .58 .89 .82	252 272 248 192 179	.06 .05 .06 .06 .05	3 1 5	1.29 1.49 1.40 1.27 1.08	.01 .01 .01 .01 .01	.08 .08 .07 .08 .08	1 1 1 1	5 12 5 8 4
5+305 5+00E 5+305 6+00E 5+305 7+00E 5+305 8+00E 5+305 9+002	2 3 4 3 2	57 68 97 78 71	5 6 15 11 9	67 60 63 67 68	.1 .1 .2 .1	65 40 35 37 23	11 11 13 13	493 475 557	2.99 3.09 3.25 4.28 3.71	11 8 9 6 8	5 5 5 5 5	ND ND ND ND ND	2 1 1 2 1	47 59 57 63 61	1 1 1 1	2 2 2 2 2	2 2 2 2 2 2	52 66 69 105 84	.60 .73 .77 .90 .85	.058 .074 .077 .118 .103	11 10 10 11 10	67 59 56 75 64	.82 .59 .64 .72 .69	204 257 247 220 221	.05 .05 .04 .06 .06	7 5 6	1.15 1.35 1.53 1.44 1.42	.01 .01 .01 .01 .01	.07 .01 .08 .09 .08	1 1 1 1	1 3 9 14 8
5+305 10+908 5+305 11÷003 6+405 5+008 7+735 5+008 9+395 5+008	- 1 1 2 3	54 66 72 29 55	14 11 7 5	70 66 73 51 71	.1 .1 .1 .1	33 32 52 51 49	11 11 10 12 11	513 516 522	3.57 3.79 2.93 2.71 2.03	6 8 10 7 10	5 5 5 5	NC ND ND ND ND	1 1 2 4 2	62 63 37 32 45	1 1 1 1	2 2 3 2	3 2 4 2 2	82 88 50 43 55	.80 .32 .52 .50 .63	.086 .087 .048 .051 .050	11 10 11 10 10	<b>62</b> 61 65 61 65	.61 .56 .57 .65 .57	221 215 189 114 170	.06 .05 .04 .06 .05	10	1.18 .81	.01 .01 .01 .01 .01	.08 .08 .08 .06 .07	1 1 1 1 1	6 2 5 1 104
9+305 6+00E 9+305 7+00E 9+305 7+00E NORTH TRIB 9+305 3+00E 12+705 6+00E	4 5 4 4 2	64 77 51 69 52	7 14 12 10 11	67 62 60 63 73	.2 .1 .2 .3	44 44 41 40 51	10 10 11 10 10	534 789 500	2.97 2.93 2.93 2.98 3.14	8 12 6 12 11	5 5 5 5	ND D ND ND D ND	2 2 2 1 2	55 54 53 62 46	1 1 1 1	2 2 2 2 2 2	2 2 3 3 3	55 54 59 55 57	.72 .66 .67 .81 .59	.053 .056 .059 .053 .057	10 11 10 10	61 55 56 55 64	.55 .55 .49 .49 .58	201 204 183 216 210	.04 .04 .04 .04 .04	4	1.10 1.31	.01 .01 .01 .01 .01	.08 .08 .06 .07 .09	1 1 1 1	6 7 4 4 13
13+505 6+608 13+655 5+008 13+655 6+008 13+655 7+008 13+655 8+008	1 1 1 1 1	55 45 52 60 65	8 13 9 12 5	61 77 61 69 62	.2 .2 .1 .2 .2	46 45 53 45 35	11 11 12 11 11	518 466 528	3.18 3.14 3.84 3.44 3.36	8 22 13 7 11	5 5 5 5 5	ND ND ND ND ND	2 3 3 2 2	43 37 40 46 54	1 1 1 1	2 2 2 3 2	2 3 2 2 2	62 64 83 71 73	.60 .57 .59 .70 .78	.049 .064 .058 .061 .064	11 9 11 9 11	68 59 84 65 57	.59 .62 .59 .56 .53	184 136 155 197 185	.04 .07 .05 .04 .05	4 6 14 3 7	1.24 1.09 1.30	.01 .01 .01 .01 .01	.08 .09 .07 .08 .08	1 1 1 1	4 6 3 1 3
15+50S 5+25E 17+00S 5+00E 17+00S 6+00E 17+00S 7+00E 21+00S 5+00E	1 2 2 2 1	70 55 54 82 43	9 15 9 5 3	74 70 73 62 57	.2 .1 .2 .3 .1	58 57 64 51 46	12 11 12 11 10	511 498 623	3.62 3.17 3.33 3.15 3.28	12 10 16 9 7	5 5 5 5	ND ND ND ND	2 1 2 2 2	51 40 36 59 46	1 1 1 1	2 3 2 2 2	2 2 4 2 3	67 51 53 58 71	.85 .53 .46 .74 .60	.071 .052 .050 .064 .055	11 11 11 11 10	71 68 76 60 57	.68 .65 .66 .66 .50	220 162 141 215 172	.04 .05 .05 .04 .05	9 2 5 7 5	1.22 1.04 1.63	.01 .01 .01 .01 .01	.10 .07 .06 .10 .07	1 1 1 1	1 10 18 2 5
21+005 6+00E STD C/AU-S	1 19	43 62	10 42	57 132	.1 6.7	<b>46</b> 73		1540 1023		10 45	5 19	ND 7	1 40	43 51	1 19	2 15	3 18	59 61		.055 .088	10 40	52 55	. 53 . 92	195 189	.05 .07	9 1 38 1		.01 .06	.06 .13	1 11	5 52

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### MINCORD EXPLORATION PROJECT SWAN PROJECT FILE # 89-2303

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SAMPLE #	No PPN	Cu PPN	Pb PPN	Zn PPN	Ag PPN	Ni PPN	Co PPN	No PPN	Fe t	As PPN	U PPM	du PPN	Th PPN	ST PPM	Cđ PPN	SD PPM	Bİ PPN	V PPN	Ca 1	P 1	La PPN	Cr PPN	Ng t	Ba PPM	71 1	B PPN	л1 1	Na ł	I ł	¥ PPH	Au** PPB
21+005 7+00E 21+005 8+00B 22+005 2+00E 22+005 3+00B 22+005 4+00E	2 1 2 2 4	47 53 86 52 63	9 6 21 12 13	62 58 100 75 79	.3 .1 .4 .2 .2	42 37 50 45 43		389	2.95 4.17 4.03	6 8 12 12 11	5 5 5 5 5	HD ND ND ND ND	1 1 1 1	47 45 73 53 51	1 1 1 1	2 2 2 2 2 2	2 2 2 2 2 2	61 60 65 64 67	.57 .52 1.05 .67 .64	.056 .052 .087 .075 .078	9 8 15 12 12	48 51 53 45 46	.52 .51 .74 .61 .63	180 162 337 248 295	.04 .04 .03 .03 .03	3 2 2	1.20 1.16 2.22 1.56 1.79	.01 .01 .01 .01 .01	.06 .06 .12 .07 .09	1 1 1 1	1 2 6 5
22+005 5+008 22+005 6+002 23+005 2+008 23+005 3+008 21+005 3+008 A	5 1 2 6 2	56 41 43 79 48	15 10 13 18 8	74 39 56 60 51	· .1 .1 .1 .4 .1	39 27 18 34 17		418 1025	2.94	26 6 5 7 4	5 5 5 5 5	ND ND ND ND ND	2 1 1 1 1	62 37 51 92 50	1 1 1 1	2 2 2 2 2 2	2 2 2 2 2	71 66 116 61 105	.73 .46 .62 .91 .62	.083 .061 .100 .068 .099	12 9 9 12 9	40 44 39 43 37	.55 .37 .48 .57 .42	279 125 177 331 162	.03 .04 .04 .03 .04	2	1.53 .85 1.00 1.66 .93	.01 .01 .01 .01 .01	.08 .05 .05 .07 .05	1 2 1 1 1	5 3 5 5
23+005 4+00E 23+005 5+00E 23+005 6+00E 23+005 7+00E 23+005 8+00E	2 2 1 2	53 52 51 60 66	7 13 11 10 16	58 63 56 65 65	.1 .1 .1 .1	20 18 21 20 21	11 12 11 11 11	488 411 499	4.26 4.37 4.05 4.41 3.88	3 4 3 5 5	5 5 5 5 5	ND ND ND ND ND	1 1 1 1 1	59 58 53 60 61	1 1 1 1	2 2 2 2 2 2	2 2 2 2 2	112 115 107 115 97	.72 .71 .65 .73 .73	.106 .108 .109 .110 .114	10 11 10 10	38 39 36 42 32	.49 .49 .46 .49 .50	203 192 181 205 223	.04 .04 .04 .04 .04	2 2 2	1.08 1.11 1.03 1.12 1.20	.01 .01 .01 .01 .01	.08 .06 .06 .07 .07	1 1 1 1	4 2 9 3 1
23+005 9+00E 22+005 10+00E 23+005 11+00E 23+605 12+00E 23+005 13+00E	1 1 2 1 2	63 69 54 61 65	11 11 9 16 13	63 73 59 62 63	.1 .1 .1 .1 .2	18 22 18 17 22	12 12 10 11 12	604 478 465	4.30 4.28 3.87 4.23 4.15	7 6 5 2 5	5 5 5 5 5	ND ND ND ND ND	1 1 1 1	59 66 55 64 62	1 1 1 1	2 2 2 2 2	2 2 2 2 2	112 108 99 106 106	.70 .79 .67 .77 .75	.113 .116 .114 .119 .116	10 11 10 11 11	36 35 32 36 33	.49 .50 .45 .48 .47	204 244 185 218 204	.04 .04 .04 .04 .04	3 3 2	1.16 1.28 1.05 1.23 1.12	.01 .01 .01 .01 .01	.06 .07 .06 .07 .07	1 1 1 1	1 3 2 47 9
23+005 14+00E 23+005 15+00K 23+005 16+00E 24+755 2+00R 27+005 1+00E	2 1 2 8 4	56 57 61 62 52	11 12 13 10 9	60 63 68 48 53	.1 .1 .2 .1 .3	20 16 19 38 28	12 11 11 9 12	532 539 504	5.57 4.45 4.19 2.56 2.98	5 4 6 4 7	5 5 5 5 5	ND ND ND ND ND	1 1 1 1	56 56 57 142 61	1 1 1 1	2 2 2 2 2 2	2 2 2 2 2 2	154 116 106 64 61	.70 .65 .70 1.23 .61	.120 .107 .113 .089 .063	10 10 11 9 9	43 34 36 35 39	.41 .47 .47 .75 .44	182 205 199 361 219	.04 .04 .04 .03 .03	4 3 3	1.02 1.07 1.12 1.39 1.20	.01 .01 .01 .01 .01	.06 .07 .07 .06 .05	1 1 1 1 1	117 2 14 7 6
27+005 2+008 29+505 1+005 29+505 2+008 29+505 2+008 WEST TRIB 29+505 3+008	5 10 7 5 7	64 36 49 30 59	9 4 11 5 6	56 52 52 44 53	.2 .2 .1 .2 .1	31 32 37 28 26	11 13 12 10 11	975 979		7 9 8 8 10	5 5 5 5 5	ND ND ND ND ND	1 2 1 1 1	81 73 87 54 97	1 1 1 1	2 2 2 2 2	2 2 2 2 2	61 117 88 59 144	.77 .54 .80 .58 .92	.065 .057 .059 .057 .083	10 8 10 8 10	41 66 60 50 46	.48 .40 .48 .41 .37	263 244 312 232 311	.03 .04 .04 .05 .04	2 3 2	1.39 .81 .99 .79 1.05	.01 .01 .01 .01 .01	.06 .04 .04 .04 .05	1 1 2 1	2 1 3 1 296
29+505 3+006 WEST TRIB 29+505 4+008 29+505 4+002 WEST TRIB 29+505 5+008 30+005 1+008	3 2 9 7 7	32 29 78 80 67	8 5 14 9 7	50 35 56 50 55	.1 .1 .2 .1	28 21 27 23 19	9 8 11 10 11	317 1162 987		6 6 5 3 4	5 5 5 5	ND ND ND ND ND	1 1 1 1	50 42 120 126 130	1 1 1 1	2 2 2 2 2	2 2 2 2 2	104	1.10	.049 .059 .079 .094 .083	8 9 12 13 9	60 46 39 37 34	.42 .39 .43 .41 .48	191 158 420 381 451	.05 .05 .04 .04 .04	2	.83 .67 1.27 1.20 1.45	.01 .01 .01 .01 .01	.04 .03 .06 .06 .07	1 1 <sup>-</sup> 1 1 2	2 1 3 2 2
30+00S 2+00B STD C/AU-S	8 19	65 62	11 43	54 132	.1 5.8	21 70	11 31	753 1025	3.14 4.14	6 43	5 18	<b>תא</b> 7	1 39	121 51	1 19	2 14	2 22	74 61		.081 .091	9 40	30 55	.57 .91	442 180	.04 .07		1.41 1.92	.01 .06	.07 .13	1 11	6 52

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MINCORD EXPLORATION PROJECT SWAN PROJECT FILE # 89-2303

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SANP LE #	No ??N	CU PPN	Pb PPN	21 PPH	Ag PPN	Nİ PPN	CO PPN	Nn PPN	Fe 1	ÀS PPN	U PPN	Au PPH	Th PPH	ST PPN	Cd PPN	SD PPM	Bi PPM	V PPM	Ca t	P t	La PPM	Cr PPN	Ng ł	Ba PPN	Ti ł	B PPM	A1 1	Na ł	K Ş	W PPN	AU** PPB
30+005 3+00E 30+005 4+008 30+005 3+00E 32+505 2+00E 32+505 3+00E	7 6 8 2 3	60 59 61 77 50	14 14 12 19 6	59 54 55 83 53	.3 .1 .2 .2	21 19 19 29 34	10 10 10 16 13	618 626 1233	3.95 4.36 3.68 5.05 3.90	3 5 10 26 9	5 5 5 5 5	ND ND ND ND ND	1 1 1 2 2	126 114 116 92 70	1 1 1 1	2 2 2 2 2 2	2 2 2 2 2	106 123 100 112 85	1.25 1.15 1.17 1.30 .75	.093 .098 .093 .131 .088	10 10 9 13 10	32 36 35 38 46	.49 .45 .46 .61 .54	452 406 415 193 173	.04 .05 .04 .06 .08	4 5	1.62 1.44 1.43 1.12 .99	.01 .01 .01 .01 .01	.08 .08 .08 .09 .05	2 1 2 1 1	7 7 4 5 11
12+505 4+00E 12+505 5+00E 12+505 6+00E 12+505 7+00E 14+255 1+00E 14+255 2+00E 14+255 3+00E	4 3 4 1 6 7 5 5	29 28 30 29 41 45 34	6 5 9 8 12 8 7	72 64 69 57 53 51 41 43	.2 .2 .2 .1 .2 .1 .2 .2 .2	39 38 39 41 15 13 11 12	11	635	3.89 3.59 2.72 3.20 3.54 4.10	11 9 8 7 6 7 7 5	5 5 5 5 5 5 5	ND ND ND ND ND ND ND	2 1 2 1 1 1	63 58 61 35 91 95 78 93	1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2	55 61 52 49 99 110 131 131	.60 .55 .59 .38 .99 1.04 .76 .95	.074 .074 .071 .058 .097 .106 .110 .110	9 9 11 8 8	52 53 49 53 24 22 22 23	.52 .44 .46 .46 .37 .38 .34	252 226 256 158 219 229 183	.05 .05 .06 .05 .05 .05 .05	3 2 5 2 6 2 2 2 2	.78 .73 .78 .88 .88 .88 .88	.01 .01 .01 .01 .01 .01	.05 .04 .05 .06 .05 .05	1 1 1 1 1 1	1 5 2 3 15 14 10
34+255 4+00E 34+255 5+00B 34+255 5+00E NORTH TRIB	5 5 5	41 52 47	8 14 5	58 54	.1 .2	12 8 20	11 8	542 331	5.92 3.03	5 6	5 5	ND ND	1	79 91	1	2 2	2 2	190 89	.97 .90	.116 .090	8 9	20 31	.35 .40 .42	199 163 249	.05 .05	11 7	.83 .91 .93	.01 .01 .01	.04 .04 .05	1 1 1	54 23 6
34+255 6+008 34+255 7+905 25+005 1+008 36+005 1+008 36+005 2+008	5 5 13 13	70 65 67 64 51	10 14 10 12 13	46 47 52 51 53	.2 .1 .3 .2	7 7 29 22 19	8 9 8 10 10	567 623	2.75	4 5 6 11 7	5 9 5 5 5	ND ND ND ND ND	1 1 1 1	85 83 130 107 104	1 1 1 1	2 2 2 2 2	2 2 2 2 2	144 66	1.19 1.33 1.14	.107 .102 .088 .093 .087	7 7 12 12 11	17 16 37 27 24	.35 .36 .42 .47 .44	184 170 352 370 354	.04 .04 .03 .04 .04	2	.88 .84 1.60 1.70 1.55	.01 .91 .01 .01 .01	.05 .05 .07 .07 .06	1 2 1 1 1	16 17 1 5
36+005 3+00E 36+005 4+008 36+005 5+002 36+005 6+008 STD C/AU-S	13 13 14 7 18	48 55 46 57 57	11 11 10 13 44	59 95 53 54 132	.2 .2 .2 .2 7.2	19 19 17 22 68	10 10 9 9 29		3.68	12 8 10 5 42	5 5 5 20	ND ND ND ND 7	1 1 1 36	100 120 108 156 48	1 1 1 1B	2 2 2 2 15	2 2 2 2 20	82	1.17 1.52	.091 .111 .101 .088 .096	10 11 10 9 38	23 25 22 30 56	.43 .43 .41 .44 .87	356 398 342 416 176	.04 .04 .04 .04 .07	6 2 4	1.51 1.61 1.39 1.53 1.93	.01 .01 .01 .01 .01	.06 .08 .06 .06 .14	1 1 1 1 12	1 5 17 51

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ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

#### GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3HL 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR NN FE SE CA P LA CR NG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPN. - SAMPLE TYPE: P1 SILT P2-P3 SOIL P4 ROCK AU\*\* AWALTSIS BY FA/ICP FROM 10 GM SAMPLE.

DATE F	ECE	IVEI	5:	JUL 2	5 1989	DA	TE	REPO	ORT I	MAIL	ED:	Ĥ	l'ng	1/6	9.	SI	GNEI	D BY	r.C		<del>ر</del>	D.1	rote, c	. LEONG	, J.WA	NG; CEI	RTIFIE	D B.C.	ASSAY	IRS	
						M	INCO	DRD	EXPI	ORA'	FION	PR	OJEC	T S	WAN	F	ile	# 8	9-24	131	/ <sub>P</sub>	age	1								
SAMPLE	Ho PPN	Cu PPM	Pb PPM	ZO PPN	Ag PPM	NI PPM	CO PPM	Hu PPM	7a ł	As PPH	U PPM	Au PPM	Th PPN	Sr PPM	Cd PPN	Sb PPM	Bİ PPN	V PPM	Ca ł	P t	La PPN	Cr PFM	Kg t	Ba PPM	Ti t	3 PPM	11 2	Na ł	ת ז	W PPM	XU** PPB
9+75N 5+00W 7+00N 5-00W 11+505 8+00W -	2 1 2	46 52 59	9 6 7	94 63 97	.2 .1 .2	55 74 158	12 11 18	1858	2.43 3.57	11 9 25	5 5 5	ND XD ND	1 1 1	28 22 32	1 1 1	2 2 2 2	2 2 2		.62 .44 1.34		11 12 7	54 79 111	.30 .32 1.91	243 110 205	.04 .06 .02	2 9	1.43 .95 1.10	.01 .01 .01	.08 .05 .04	1 1 1	4 5 9
11+505 "+00W P 11+505 6+00W	9 3	71 62	13 6	291 148	.1 .2	120 112	13 14	1031 631	4.27 3.59	23 20	5	ND ND	1	50 40	1	2	4 3	79 52	.56 .96	.060 .060	10 8	57 98	.96 .95	189 196	.02 .02		1.15	.01 .01	.13 .07	1 1	12
11+305 3+03W P 15+005 3-00W P 23+005 5+00W P 24+305 5+30W 32+455 13+00W P	4 2 1 1 3	57 24 16 24 28	12 5 2 4 6	162 48 42 40 55	.1 .2 .1 .1 .1	102 41 44 35 96	19 15 7 7 14	434	3.90 3.23 1.97 2.21 2.79	15 17 2 7 17	5 5 5 5 5	ND ND ND ND ND	1 1 1 1	33 22 20 25 25	1 1 1 1	2 2 2 2 2	2 2 2 2 2	65 35 27 33 25	.45 .49 .71 .71 1.12	.050 .049 .036 .071 .044	7 7 5 8 6	56	.92 .55 1.05 .57 1.01	172 170 63 76 253	.02 .04 .04 .04 .02	9 3 7 5 9	1.00 .91 .67 .63 .75	.01 .01 .01 .01 .01	.09 .04 .04 .03 .04	1 1 2 1	5 4 1227 2 4
STD C/AU-S	17	53	40	132	6.5	57	30	1030	4.12	44	19	7	35	50	18	16	17	57	.50	.092	38	56	.93	194	.07	36	1.98	.06	.14	12	51

Soil								MIN	CORD	EXI	LOR	ATIC	ON P	ROJI	ECT	SWAN	I F	ILE	# 8	89-24	431										Pag
SAMPLE#	ый Кой	Cu PPH	Pb PPN	22 PPN	Ag ?PN	Ni PPM	CO PPM	ак ??ч	F# 1	AS PPM	U 29M	Au PPM	th PPH	sr PPM	Cd ?PH	55 29H	3i PPM	¥53	Ca ł	?	La PPX	CT PPM	Xg 1	Ba PFM	71 1	8 29%	۸1 ۲	Na t	8 3	¥ 1995	2022 298
SW 2+005 25+55W P SW 2+005 25+25W P SW 2+903 25+09W P SW 2+005 24+75W SW 2+005 24+75W P	4 3 2 2	40 40 39 97 25	29 17 5 7 11	145 119 67 70 57	.3 .2 .2 .3 .1	105 125 84 158 75	27 12 8	2459 1155 502 243 1474	4.60 3.46 2.89	29 22 15 8 9	5 5 5 5	ND ND ND ND ND	1 1 1 1	15 10 15 25 22	i 1 1 1	3 2 2 2 2	3 3 2 3 2	71 57 37 32 37	.29 .37 .31 .60 .19	.045 .039 .039 .026 .041	7 9 7 10 7	112	1.15 1.24 1.21 1.17 .94	247 299 137 178 163	.03 .03 .04 .03 .03	4 3 4	2.22 2.01 1.30 1.34 1.20	.01 .01 .01 .01 .01	.09 .08 .05 .04 .05	2 1 1 1 1	5 7 6 6 4
SW 24005 24400W SW 24005 22475W P SW 24005 22455W P SW 24005 23425W SW 24005 23425W SW 24005 22475W P	1 1 16 4	35 26 9 56 40	13 10 4 11 13	56 67 49 229 131	.1 .1 .2 .2	77 95 62 73 187	10 10 7 13 24	221 164	1.92 3.31 1.72 4.07 5.24	3 10 2 15 23	5 5 5 5	KD ND ND ND ND	1 1 1 1	34 8 7 35 37	1 1 1 1	2 2 3 2	2 2 2 3	30 42 29 80 63	.31 .12 .11 .05 .43	.030 .017 .014 .043 .082	9 9 6 7	111 53	.75 1.41 1.38 .12 1.35	204 111 94 219 224	.02 .04 .03 .01 .01	2 2 8	1.02 1.47 1.19 1.01 1.83	.01 .01 .01 .01 .01	.04 .02 .03 .04 .08	1 1 1 1 1	5455
SW 24005 22450% P SW 44635 24475% P SW 44605 244500 P SW 44605 24450 P SW 44605 24425% P SW 44605 24456% P	2 1 1 2	36 7 9 9	14 11 2 5 2	86 39 37 29 44	.1 .1 .1 .1 .1	96 36 34 30 36	15 5 6 19	235 200 213	2.98 1.75 1.70 1.51 2.69	9 7 3 3 13	5 5 5 5 5	ND ND ND ND ND	1 1 1 1	27 11 11 11 13	1 1 1 1	3 2 2 2 2	3 2 2 2 2	51 25 24 21 38	.10 .19 .22 .24	.03C .031 .032 .030 .026	10 11 12 11 9	109 58 55 56 60	1.05 .76 .76 .64 .75	256 97 87 79 145	.02 .03 .04 .04 .04	2 4 2	1.55 .96 .92 .74 1.17	.01 .01 .01 .01 .01	.07 .03 .03 .03 .03 .05	1 1 1 1	2 12 5 5 3
SW 4+005 23+75% P SW 4+005 23+75% SW 4+005 22+15% SW 4+005 23+00% P SW 4+005 22+75% P	1 1 1 2 1	1 7 13 5	9 3 14 5	37 40 39 50 38	.1 .1 .1 .1	23 30 24 51 28	5 5 4 17 4	199 172 793	1.57 1.55 1.39 3.01 1.59	7 2 4 9 7	5 5 5 5	ND ND ND ND	1 1 1 1	9 10 10 12 9	1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 3 3	25 25 23 53 24	.16	.018 .026 .024 .036 .023	10 11 10 8 11	51 54 50 101 51	.55 .68 .57 1.21 .58	96 111 123 171 96	.03 .03 .02 .03 .03	62	.89 1.00 1.01 1.65 .95	.01 .01 .01 .01 .01	.03 .04 .04 .06 .04	1 1 1 1	2 3 15 5
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## APPENDIX 3

Rock Sample Descriptions and Core Sample Descriptions

The following are descriptions for rocks collected for assay from the Swan property. Unless otherwise noted, samples are a pseudo chip sample taken over 1 m. at 90 degrees to any visible structure.

Sample #	Location	Description
SW-AB-89-1	See Map	Altered ultramafic, Listwanite. Composed predominantly of carbonate, quartz and fuchsite, quartz as fractured veinlets <1 mm wide. Rock is strongly foliated and weathers a rusty brown.
SW-AB-89-2	See Map	Granite? Quartz Syenite. Medium grained with dark green aphanitic clasts, relatively unaltered. Quartz veinlets present may contain pyrite and hematite stringers. Pyrite 1-2%.
SW-AB-89-3	See Map	Granite? Quartz Syenite. Covered with rusty limonite coating, and leached sulphur. Pyrite 5-10%. Rock has been strongly altered (silicification, argillic alteration) but appears to have been same rock type as previous sample.
SW-AB-89-4a	See Map	Granite? Quartz Syenite. Composed predominantly of K-feldspar <5% quartz and mafic minerals (amphibole?). Pyrite disseminated throughout much of outcrop but also present as blebs up to 8 cm wide stringers. Sample comes from a sheared part of outcrop with limonite coating near a minor fault, 1-2% chalcopyrite and pyrite with some minor malachite staining.
SW-AB-89-4b	See Map	Granite? Quartz Syenite as previous sample except sample is strongly sheared with limonite coating. Percentage sulphides difficult to estimate due to oxidation, leached sulphur and red staining present probably hematite (cinnabar?).
SW-AB-89-4c	See Map	Granite? Quartz Syenite. Same as previous sample.
SW-AB-89-4d	See Map	Granite? Quartz Syenite. Same as previous sample but outcrop is a pulverized fault gouge containing predominantly sulphides, pyrite and chalcopyrite, leached sulphur and a white salt? present.

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Sample #	Location	Description
SW-AB-89-4e	See Map	Granite? Quartz Syenite. Comes from a fault, but not cross faults (shears?) of samples 4b-d. Sample is leucocratic, mafic minerals <5%, pyrite 3-4%, as small stringers <1 mm wide, predominantly as blebs 3-5 mm in size and occasionally as euhedral grains. Argillic? alteration present.
SW-AB-89-4f	See Map	Granite? Quartz Syenite as previous sample but less altered, pyrite 2-3% as blebs up to 5 cm. Molybdenite? present.
SW-AB-89-4g	See Map	Granite? Quartz Syenite as previous sample. Pyrite/chalcopyrite 2-3% as disseminated grains, occasionally as stringers.
<b>SW-A</b> B-89-5a	See Map	Hybrid Quartz Monzonite? Melanocratic, purplish in outcrop. Sample contains pyrite and chalcopyrite 1-2%, malachite staining present on some fracture surfaces.
SW-AB-89-5b	See Map	Hybrid Quartz Monzonite? Sample associated with a fault, chlorite and epidote alteration present, outcrop cut by carbonate veinlets with hematite (cinnabar?).
SW-AB-89-5c	See Map	Grey Quartz veinlet 5-10 cm wide, 1.5 m long in a fault hosted by Granite? Quartz Syenite about 1 m above contact with Hybrid Quartz Monzonite? Fault and vein strike 040 degrees. Contains 10-20% pyrite also hematite present. Sample taken is solely of quartz. (Grab).
SW-AB-89-6a	See Map	Hybrid Quartz Monzonite? Originally a dark melanocratic? rock. Strongly silicified, light grey in color with a limonite coating and leached sulphur. Pyrite 4-5% as disseminated euhedral grains and irregular blebs.
SW-AB-89-6b	See Map	Same as previous sample.

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Sample #	Location	Description
SW-AB-89-7a	See Map	Hybrid Quartz Monzonite? Dark grey rock, silicified and cut by quartz veinlets containing molybdenite as blebs up to 5 cm in length. Pyrite and chalcopyrite 1-2%.
SW-AB-89-7b	See Map	Hybrid Quartz Monzonite (Silicified Monzonite). Dark grey rock, with a limonite coating. 1-2% pyrite and chalcopyrite with malachite and hematite on fracture surfaces.
SW-AB-89-8	See Map	Hybrid Quartz Monzonite, silicified, highly fractured, with rusty limonite coating and weathered surfaces, 10% pyrite chalcopyrite. Malachite occasionally present on fracture surfaces.
SW-AB-89-9	See Map	Hybrid Quartz Monzonite, silicified, 10-20% pyrite and chalcopyrite with limonite coating weathered surfaces.
SW-AB-89-10	See Map	Hybrid Quartz Monzonite, silicified, fresh surface light grey, weathered surface coated with limonite, 1-2% pyrite as disseminated grains.
SW-AB-89-11	See Map	Hybrid Quartz Monzonite. Black to green chlorite altered Monzonite, weathered surface limonite coated. <1% pyrite and chalcopyrite with hematite and rare malachite on fracture surfaces.
SW-AB-89-12	See Map	Hybrid Quartz Monzonite, with limonite on weathered surface. Fault gouge?, chlorite, argillic? alteration and secondary K-feldspar present. Chalcopyrite and pyrite present amount present difficult to estimate in gouge.
<b>SW-AB-</b> 89-13a	See Map	Hybrid Quartz Monzonite. Monzonite/ Diorite. Chlorite alteration with secondary K-feldspar present, weakly silicified, 1-2% chalcopyrite and pyrite present.
SW-AB-89-13b	See Map	Hybrid Quartz Monzonite. Black silicified rock, Diorite? 5-10% pyrite and chalcopyrite.

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Sample #	Location	Description
SW-AB-89-13c	See Map	Hybrid Quartz Monzonite. Dark grey to black (Syenodiorite/Diorite?) Strongly fractured, chlorite altered, moderately silicified with rare quartz veinlets. 2-3% chalcopyrite and pyrite as disseminated grains occasionally as veinlets up to 1 mm wide. Secondary K-feldspar present adjacent to sample where outcrop is less weathered.
SW-AB-89-13d	See Map	Same as previous sample but with more plagioclase present.
SW-AB-89-14	See Map	Angular rubble on creek bank in vicinity of KWA5. Pinkish monzonite with weak argillic? alteration, weathered surface with limonite coating.
SW-AB-89-15a	See Map	Monzonite? Has undergone intense argillic? alteration which is pervasive, weathered surface with a rusty limonite coating, 1% pyrite.
SW-AB-89-15b	See Map	Diorite? Bright green rock cut by numerous carbonate veinlets with variable orientations. Hematite staining on rock (cinnabar?).
<b>SW-AB-89-16a</b>	See Map	Granite / Granodiorite (possibly Syenite?) Argillic altered, 1-2% chalcopyrite with malachite staining. Outcrop is strongly fractured.
SW-AB-89-16b	See Map	Same as previous sample but no chalcopyrite present. Pinkish mineral stain present hematite (cinnabar?).
SW-AB-89-16c	See Map	Same as SW-AB-89-16a but with 1-2% pyrite and chalcopyrite and some minor malachite staining.
SW-AB-89-16d	See Map	Same as SW-AB-89-16a but with 2-3% chalcopyrite and pyrite as disseminated grains and blebs and some minor malachite staining.
SW-AB-89-17a	See Map	Granite pink on fresh surface rusty orangish limonite coating on weathered surface, 5-10% mafic minerals, weakly silicified. Trace chalcopyrite and molybdenite, malachite staining, outcrop with a blocky fracture.

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Sample #	Location	Description
SW-AB-89-17b	See Map	Granite as previous sample. Strongly fractured (fault present) weathered surface with a rusty limonite coating. Molybdenite 2-3% chalcopyrite <1%.
SW-AB-89-17c	See Map	Granite as previous sample, with a blocky fracture and limonite coating weathered surfaces. 2-3% chalcopyrite and pyrite, malachite staining present.
SW-AB-89-17d	See Map	Granite as previous sample. Weakly fractured with hematite (cinnabar?) on fracture surfaces.
SW-AB-89-17e	See Map	Granite as previous sample. Weakly fractured with 1-2% pyrite and chalcopyrite. Hematite (cinnabar?) on fracture surfaces.
SW-AB-89-18	See Map	Intensely silicified rock containing bull white quartz veinlets no obvious mineralization present.
SW-AB-89-19a	See Map	Granite? pink in color with a limonite coated weathered surface and argillic? alteration, TR epidote present. 1-2% pyrite and chalcopyrite with malachite staining.
SW-AB-89-19b	See Map	Granite? as previous sample but less altered. Pyrite <1%. Hematite staining (cinnabar?) present.
SW-AB-89-19c	See Map	Granite? as previous sample but more altered. Chalcopyrite, pyrite 3-4% with malachite and azurite on fracture surfaces.
SW-AB-89-19d	Ѕее Мар	Grey and white quartz has been fractured and resealed by clay. Chalcopyrite and pyrite 5-10%. (Grab).
SW-AB-89-19e	See Map	Granite? as sample SW-AB-89-19a-19c less altered by fault than 19d. 1-2% chalcopyrite with malachite staining.
SW-AB-89-20a	See Map	Granite, outcrop fractured and jointed, biotite altering to chlorite, argillic? alteration present, limonite coating weathered surface, malachite staining present.

Sample #	Location	Description
SW-AB-89-20b	See Map	As previous sample but with hematite on fracture surfaces.
SW-AB-89-21	See Map	Silicified Volcaniclastic? Greywacke. Part of Takla Group. Light grey to white weathers a rusty brown cut by quartz veinlets. metallic sheen on fracture surface possibly arsenopyrite?
SW-AB-89-22	See Map	Intensely silicified fine grained Granite. Light grey to white weathers a rusty orangey brown <1% pyrite present.
SW-AB-89-23	See Map	Fine grained granite, weathers rusty orange, purple on fresh surfaces sample cut by numerous carbonate veinlets. Purplish staining of groundmass hematite?
SW-AB-89-24a	See Map	Granite, with 5-10% epidote, 1% hematite as veinlets.
SW-AB-89-24b	See Map	Pale pink Granite with moderate argillic? alteration. Small rusty patches on outcrop, 2-3% molybdenite present, <1% chalcopyrite present with malachite halos.
SW-AB-89-24c	See Map	Granite, weathers a rusty orange color, fresh surface pink. Molybdenite 2-3% on fracture surfaces, chalcopyrite <1% with malachite stained halos.
<b>SW-AB-89-24</b> d	See Map	Black silicified rock with rusty limonite weathered surface. Fractures coated with a bright red mineral, hematite (cinnabar?) <1% pyrite present.
SW-AB-89-24e	See Map	Light pink Granite with moderate argillic alteration. 5–10% molybdenite with 2–3% chalcopyrite/ pyrite.
SW-AB-89-24f	See Map	Same as previous sample but with only 1% chalcopyrite and pyrite.
SW-AB-89-25	See Map	Hybrid Quartz Monzonite, melanocratic, chlorite? altered. Contains 1% pyrite.

Sample #	Location	Description
SW-AB-89-25a	See Map	Hybrid Quartz Monzonite, weathered surface with limonite coating, 1–5% pyrite as disseminated grains, stringers and blebs up to 2–3 cm.
SW-AB-89-26	See Map	Hybrid Quartz Monzonite, dark green grey, chlorite? alteration, 5-10% pyrite and chalcopyrite with occasional malachite stains.
SW-AB-89-26a	See Map	Hybrid Quartz Monzonite, associated with a minor fault. Limonite coating on weathered surface. 10% epidote, moderately silicified, 1-2% disseminated chalcopyrite and pyrite, occasionally as blebs.
SW-AB-89-26b	See Map	Hybrid Quartz Monzonite, moderately to intensely silicified (pure quartz in parts), limonite patches present over outcrop. Up to 20% sulphides present predominately pyrite with minor chalcopyrite.
SW-AB-89-27	See Map	Hybrid Quartz Monzonite, weathered surface with a limonite coating, silicified fresh surface light grey in color. Sulphur leaching out of rock. Chalcopyrite and pyrite 1-5% as disseminated grains, stringers and blebs up to 2-3 cm in size.
SW-AB-89-27a	See Map	As previous sample.
SW-AB-89-27b	See Map	As previous sample.
SW-AB-89-27c	See Map	Hybrid Quartz Monzonite, weathered surface with a limonite coating, moderate argillic alteration. 1-2% disseminated sulphides, pyrite and chalcopyrite.
SW-AB-89-27d	See Map	Hybrid Quartz Monzonite, intensely silicified fresh surface looks like dark grey to black quartz, 2-3% pyrite.
SW-AB-89-27e	See Map	Hybrid Quartz Monzonite, cut by numerous carbonate veinlets, weathered surface with limonite coating. Sample taken across a fault contains 2-3% chalcopyrite and pyrite with occasional malachite stains.

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Sample #	Location	Description
<b>SW-A</b> B-89-27f	See Map	Hybrid Quartz Monzonite, moderately to intensely silicified, clay and leached sulphur on fracture surfaces with limonite coated weathered surface, 5% chalcopyrite and pyrite.
SW-AB-89-27g	See Map	Silicified Hybrid Quartz Monzonite, fresh surface light grey, weathered surface with limonite coating, leached sulphur on fracture surfaces, 10% pyrite present.
<b>SW-AB-</b> 89-27h	See Map	Silicified Hybrid Quartz Monzonite, cut by quartz veinlets with 20% pyrite and chalcopyrite present.
SW-AB-89-28	See Map	Hybrid Quartz Monzonite, moderately fractured, weak to moderate argillic alteration, weathered surface with limonite coating, 10-15% pyrite as disseminated grains and veinlets.
SW-AB-89-29	See Map	Hybrid Quartz Monzonite, Syenodiorite, moderately to intensely silicified, weathered surface with limonite coating. Pyrite present as large blebs 20 cm long 2-4 cm wide.
SW-AB-89-29a	See Map	Hybrid Quartz Monzonite, Syenodiorite, intensely silicified fresh surface light grey, carbonate veinlets present, 1-2% pyrite as disseminated grains.
SW-AB-89-30	See Map	Hybrid Quartz Monzonite, intensely silicified, fresh and weathered surface chocolate brown 5-10% pyrite present as stringers.
<b>SW-AB-</b> 89-30a	See Map	Hybrid Quartz Monzonite, syenodiorite, silicified fresh surface light grey, weathered surface with limonite coating and leached sulphur. 20% sulphides present pyrite and chalcopyrite.
SW-AB-89-31	See Map	Hybrid Quartz Monzonite, containing secondary K-feldspar, cut by numerous carbonate veinlets, no obvious mineralization present.

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Sample #	Location	Description
SW-AB-89-31a	See Map	Hybrid Quartz Monzonite, dark green on surface due to chlorite alteration, epidote and hematite present, cut by carbonate veinlets, secondary K-feldspar present. Trace chalcopyrite and pyrite on fracture surfaces.
SW-AB-89-31b	See Map	Hybrid Quartz Monzonite, Monzonite, plagioclase weak to moderate argillic? alteration. Chlorite and hematite on fracture surfaces. Trace pyrite as disseminated grains << 1 mm in size.
SW-AB-89-32	See Map	Hybrid Quartz Monzonite, limonite on weathered surface, epidote and hematite present, 1-2% pyrite as subhedral disseminated grains up to 1 mm in size. Epidote and hematite stringers. (Grab)
SW-AB-89-32a	See Map	Quartz vein in Hybrid Quartz Monzonite contains hematite stringers. (Grab)
SW-AB-89-33	See Map	Hybrid Quartz Monzonite, Biotite Monzonite, <5% quartz, carbonate veinlets present; secondary K-feldspar, epidote and hematite on fractures.
SW-AB-89-34	See Map	Leucocratic Granite, predominantly K-feldspar but plagioclase present and moderately to strongly altered 1-2% pyrite present.
SW-AB-89-35	See Map	Granite to Granodiorite, weakly fractured, plagioclase with moderate argillic? alteration, hematite on fracture surfaces. Trace pyrite present as disseminated grains.
SW-AB-89-36	See Map	Granite, moderately to weakly fractured with limonite coating weathered surfaces, silicified in places, hematite present on some fracture surfaces. Trace pyrite as disseminated grains.

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Sample #	Location	Description
SW-AB-89-36a	See Map	Diorite Feldspar Porphyry, weakly to moderately fractured with limonite on fractured surfaces. Plagioclase laths pale green undergoing alteration to sericite? or chlorite? Pervasive hematite? staining of groundmass, cut by carbonate veinlets.
SW-AB-89-37	See Map	Very fine grained Granite, occasionally with K-feldspar phenocrysts. Weathered surface black, unweathered surface purplish possibly hematite? staining, cut by quartz veinlets.
SW-AB-89-38	See Map	Same as previous sample except strongly fractured, weathers pale orange with patchy limonite stains.
SW-AB-89-39	See Map	Hybrid Quartz Monzonite. (Syenite/Syenodiorite) Weakly to moderately fractured, sample composed predominantly of K-feldspar, chlorite alteration along fractures. <1% chalcopyrite on fracture surfaces as very fine grains occasionally as blebs.
SW-AB-89-39a	See Map	Hybrid Quartz Monzonite. Intensely fractured with chlorite alteration. Cinnabar? <1% as veinlets. <1% chalcopyrite as blebs.
SW-AB-89-39b	See Map	Hybrid Quartz Monzonite, intensely fractured with secondary K-feldspar, chlorite and epidote alteration. Sample taken 1 m on either side of a chalcopyrite veinlet.
SW-AB-89-39c	See Map	Hybrid Quartz Monzonite, intensely fractured, chlorite and hematite present on fractures, epidote also present, trace pyrite.
<b>SW-A</b> B-89-39d	See Map	Hybrid Quartz Monzonite, predominantly K-feldspar, fracture surfaces with chlorite and epidote, no visible mineralization.

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Sample #	Location	Description
SW-AB-89-39e	Ѕее Мар	Hybrid Quartz Monzonite, moderately fractured, strong chlorite alteration along fractures, hematite staining on fractures, epidote also present. Trace pyrite and chalcopyrite as disseminated grains. Trace bright red hematite (cinnabar?) veinlets.
SW-AB-89-40	See Map	Monzonite medium to coarse grained with 5% Biotite, limonite on weathered surface, moderately fractured. No visible mineralization.
SW-AB-89-41	See Map	Granodiorite (predominantly with plagioclase) intense argillic? alteration, mafic minerals altering to chlorite, hematite on fractures.
SW-AB-89-41a	See Map	Granite/Granodiorite (sample taken across shear) with pervasive hematite staining otherwise as above.
SW-AB-89-41b	See Map	Granite moderately to intensely fractured. Plagioclase with argillic? alteration, rare patches of hematite staining on fractures and in shears.
SW-AB-89-42	See Map	Granodiorite, moderately fractured, patchy limonite on weathered surfaces, argillic? alteration of plagioclase, hematite on fracture surfaces.
SW-AB-89-43	See Map	Granite, plagioclase with weak argillic/sericite? alteration, patchy limonite staining on weathered surfaces, hematite on fractures, occasionally with trace malachite stains.
<b>S₩-AB-</b> 89 <b>-</b> 43a	See Map	Granite/Granodiorite, plagioclase with weak to moderate argillic? alteration, fracture surfaces with limonite coating, fresh surface with a purplish groundmass (Hematite?).

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Sample #	Location	Description
SW-AB-89-43b	See Map	Granodiorite, plagioclase intense to moderately altered (argillic?/ sericite?), pervasive hematite, secondary quartz as rounded blebs, trace pyrite as oxidized disseminated grains.
SW-AB-89-44	See Map	Polymictic Boulder Conglomerate, ortho to paraconglomerate with rounded boulders and pebbles with black coating (hematite?) in a red clay matrix with pervasive hematite staining of outcrop.
SW-AB-89-45	See Map	Granite/Granodiorite rock is crumbly from alteration (argillic?) with pervasive hematite staining and patchy limonite on weathered surfaces. Chlorite present on fracture surfaces, <1% chalcopyrite as small blebs and stringers.
SW-AB-89-46	See Map	Granite weak to intensely fractured, weak argillic? alteration, hematite on fractures it may be pervasive, patchy limonite on weathered surfaces. Trace chalcopyrite on fractures.
SW-AB-89-46a	See Map	Same as previous sample except intense argillic? alteration, strongly fractured (taken by fault) 1-2% chalcopyrite as veinlets <1 mm wide.
SW-AB-89-46b	See Map	Same as previous sample, chalcopyrite 1-2% as veinlets <1 mm wide.
SW-AB-89-46c	See Map	Granodiorite, plagioclase moderate to weakly altered dark grey groundmass, rock cut by a contorted network of hematite veinlets. Trace chalcopyrite as disseminated grains.
SW-AB-89-47	See Map	Granodiorite, strongly fractured, network of limonite veinlets pervade rock, plagioclase moderately to intensely altered.

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Sample #	Location	Description
SW-AB-89-48	See Map	Granite, medium to coarse grained biotite Granite. Plagioclase unaltered, biotite grains with chlorite altered rims, epidote may be present, secondary K-feldspar present in part of rock. Trace chalcopyrite and pyrite as disseminated grains. Quartz 5%.
SW-AB-89-48a	See Map	Quartz vein with 2-3% molybdenite and 4-5% chalcopyrite. (Grab).
SW-AB-89-48b	See Map	Diorite? Very fine grained dark green rock, intensely fractured with interstitial epidote, hematite on fracture surfaces.
SW-AB-89-49	See Map	Granite. Secondary K-feldspar veinlets. 10-15% biotite with chlorite altered rims. 5-10% quartz present. Cur by rare quartz veinlets, blotchy hematite stains present.
SW-AB-89-50	See Map	Hybrid Quartz Monzonite with strong chlorite alteration, brecciated/ sheared, weathers black with secondary calcite present. Small quartz veinlet present possibly minor flooding. 5% chalcopyrite.
SW-AB-89-51	See Map	Feldspar Porphyry, argillic? alteration of feldspars, rusty limonite staining. Trace pyrite as disseminated grains. Trace chalcopyrite and arsenopyrite? in veinlets. Feldspar phenocrysts in quartz rich groundmass.
SW-AB-89-52	See Map	Hybrid Quartz Monzonite, aphanitic black rock, intensely fractured, intense chlorite alteration, 1-2% pyrite as disseminated grains, 1% chalcopyrite as disseminated grain.
SW-AB-89-53	See Map	Hybrid Quartz Monzonite, moderately fractured, chlorite alteration, hematite staining on fracture surfaces, chaotic quartz stringers present, white mica, possibly cinnabar? (hematite).

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Sample #	Location	Description
SW-AB-89-54	See Map	Hybrid Quartz Monzonite, Syenite? 10% mafic minerals, quartz stringers present with interstitial chlorite. Trace chalcopyrite as disseminated grains.
SW-AB-89-55	See Map	Hybrid Quartz Monzonite, intense chlorite alteration, trace red mineral (cinnabar?). Chalcopyrite 4-5% as veinlets within chlorite alteration.
SW-AB-89-56	See Map	Hybrid Quartz Monzonite, Monzonite to Monzodiorite, 30% secondary K-feldspar, mafic minerals 10–15%, chalcopyrite and pyrite <1% as disseminated grains, trace magnetite.
SW-AB-89-57	See Map	Hybrid Quartz Monzonite, highly variable with up to 70% secondary K-feldspar, <10% mafic minerals as low as 5%, otherwise 10-20% mafic minerals. Chlorite alteration, epidote as blebs, 2-3% chalcopyrite as disseminated grains and stringers.
<b>SW-A</b> B-89-58	See Map	Hybrid Quartz Monzonite, 60% K-feldspar, epidote as blebs and on fracture surfaces, calcite veinlets and interstitial calcite, chlorite alteration on fractures, chalcopyrite and pyrite 3-4% as veinlets and disseminated grains.
SW-AB-89-59	See Map	Hybrid Quartz Monzonite, aphanitic, weakly fractured, cut by quartz carbonate veinlets, intense chlorite alteration rare hematite stains. 1-2% chalcopyrite and pyrite as disseminated grains.
SW-AB-89-60	See Map	Hybrid Quartz Monzonite with 20-30% secondary K-feldspar, epidote, chlorite alteration associated with more mafic portions of rock, occasional quartz stringers present. 1-2% chalcopyrite and pyrite as disseminated grains.

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Sample #	Location	Description
SW-AB-89-61	See Map	Hybrid Quartz Monzonite, Syenodiorite, black weathered surface, 10-15% K-feldspar, chlorite alteration of mafics, quartz <5%, calcite present, epidote 2-3%, Chalcopyrite 2-3%, trace bornite, trace cinnabar?
SW-AB-89-62	See Map	Hybrid Quartz Monzonite, Syenodiorite, 20-30% secondary K-feldspar, chlorite alteration, trace epidote, 2-3% chalcopyrite and pyrite as disseminated grains. Trace coarse grained calcite crystals.
SW-AB-89-63	See Map	Hybrid Quartz Monzonite, Diorite to Syenodiorite, dark green, brecciated, weakly magnetic,m chlorite altered, rare quartz stringers present in K-feldspar rich portions of rock. 2-3% chalcopyrite/pyrite as disseminated grains.
SW-AB-89-64	See Map	Hybrid Quartz Monzonite, black to rusty with limonite patches on weathered surface. Rock is aphanitic except for <10% coarse grained K-feldspar, moderately to intensely silicified. Pyrite and arsenopyrite 1-2% as disseminated fine grains.
SW-AB-89-65	See Map	Hybrid Quartz Monzonite, Syenodiorite, strongly fractured, breccia, intense chlorite alteration, 5% K-feldspar, <5% Quartz. 1-2% calcite, trace magnetite, 1-2% chalcopyrite/pyrite as disseminated grains.
SW-AB-89-66	See Map	Hybrid Quartz Monzonite, Syenodiorite, secondary K-feldspar, calcite veinlets, epidote veinlets, chlorite alteration along fractures, chalcopyrite as blebs and veinlets 2-3%, cinnabar? hematite present.
SW-AB-89-67	See Map	Granite, 30-40% K-feldspar (secondary?), 10-20% mafic minerals showing chlorite alteration, 1-2% pyrite as blebs and stringers.

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Sample #	Location	Description
SW-AB-89-68	See Map	Monzonite, fine to medium grained, 20% mafic minerals predominantly biotite, occasionally with hematite on fractures, weakly magnetic.
SW-AB-89-68a	See Map	Monzodiorite? Diorite, medium to fine grained, 70% mafic minerals, strongly magnetic, epidote 10% as veinlets and grains. Trace pyrite as disseminated grains.
SW-AB-89-69	See Map	Granite, 70-80% feldspar predominantly K-feldspar, 10-15% mafics mostly biotite, 10-15% quartz, rock is magnetic. biotite altering to chlorite, small hematite patches present.
SW-AB-89-70	See Map	Hybrid Quartz Menzonite, fine grained 40% mafic minerals, 60% felsic minerals, weak mineralization trace pyrite. Rock is strongly fractured and cut by carbonate veinlets.
SW-AB-89-70a	See Map	Hybrid Quartz Monzonite as previous sample, except intensely fractured, strong chlorite alteration on fractures, hematite staining, but by carbonate veinlets.
SW-AB-89-70b	See Map	Hybrid Quartz Monzonite as previous sample, moderately to strongly fractured with epidote present, cut by carbonate veinlets.
SW-AB-89-70c	See Map	Hybrid Quartz Monzonite as previous sample, strongly to moderately fractured, epidote on fractures, trace chalcopyrite and pyrite, cut but calcite veinlets.
SW-AB-89-70d	See Map	Hybrid Quartz Monzonite as previous sample, strongly fractured, strong chlorite alteration on fractures, cut by calcite veinlets, chalcopyrite <1%.
SW-AB-89-71	See Map	Greywacke, composed of silt and sand sized particles, no mineralization but limonite on weathered surface, cut by carbonate veinlets with various orientations.

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Sample #	Location	Description
SW-AB-89-72	See Map	Unusual Rock. Composed of 40% mica, soft blue mineral (not talc) 30%. Carbonate 30%. Cut by carbonate stringers.
SW-AB-89-73	See Map	Paraconglomerate with sand to pebble sized grains in a mud matrix. No mineralization but limonite stained patches on weathered surface.
SW-AB-89-74	See Map	Granite, predominantly K-feldspar and quartz, medium to coarse grained, trace pyrite as disseminated grains.
SW-AB-89-75	See Map	Granite, medium to coarse grained, composed of K-feldspar, quartz, 15% mafic minerals mostly biotite (greenish altering to chlorite?). Magnetite grains up to 2-3 mm in size, rare hematite stains.
SW-AB-89-76	See Map	Diorite? Strongly fractured, dark green aphanitic rock, strongly mineralized 5-10% pyrite as disseminated grains and stringers.
SW-AB-89-77	See Map	Granite, coarse to medium grained, 20% mafic minerals, 10% quartz, remainder K-feldspar, spots of hematite stains.
SW-AB-89-78	See Map	Hybrid Quartz Monzonite. Syenite? fine to medium grained, 70% feldspar, 30% mafic minerals, quartz veinlets present. Trace Molybdenite? as veinlets.
<b>SW-A</b> B-89-78a	See Map	Hybrid Quartz Monzonite, strongly fractured, strongly altered (chlorite and argillic?) hematite staining, quartz and carbonate veinlets present. <1% pyrite present.
SW-AB-89-78b	See Map	Hybrid Quartz Monzonite, strong alteration (chlorite? sericite?), cut by quartz veinlets. Pyrite and chalcopyrite 1-2% as disseminated grains.
SW-AB-89-78c	See Map	Hybrid Quartz Monzonite as previous sample, cut by quartz veinlets containing chalcopyrite and molybdenite? Chalcopyrite and pyrite 1-2%.

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Sample #	Location	Description
SW-AB-89-79	See Map	Monzodiorite / Monzonite, medium grained with 30% mafics predominantly biotite which is chlorite altered.
SW-AB-89-80	See Map	Monzonite, fine to medium grained, 30% mafic minerals, magnetic.
SW-AB-89-81	See Map	Quartz Diorite with 20% mafic minerals, 40% quartz and 40% plagioclase, no obvious mineralization, sample is strongly magnetic.
SWG-89-1	See Map	Quartz carbonate network (veins) in a shear. 0.2-10% pyrite; reddish spots cinnabar? (Grab)
SWG-89-2	See Map	Hybrid Quartz Monzonite. +/- epidote and carbonate K-feldspar and quartz. 2-4% chalcopyrite and pyrite on fractures. (Grab)
SWG-89-3	See Map	Takla argillite cut by carbonate +\- chalcedony veinlets 7 to 10 cm wide generally 3 cm wide. Mostly carbonate banded with botryoidal chalcedony. (Grab)
SWM-89-1	See Map	Salmon Pink, K-feldspar flooded Syenite, minor chalcopyrite. (Grab)
SWM-89-2	See Map	Calcite vein in biotite altered broken intrusive. Vein attitide 050 degrees dip and width indeterminant, sample over 0.3 m.
SWM-89-3	See Map	Dark Hybrid Quartz Monzonite. (Grab)
SWM-89-15	See Map	Altered limestone in old prospect pit. (Grab)
SWM-89-16	See Map	Silicified ultramafic, vuggy calcite and chalcedonic quartz veinlets trending 060 degrees dipping 60 degrees north. (Grab)
SWM-89-17	See Map	Limestone. (Grab)
SWM-89-18	See Map	Pyritic intrusive, green, full of quartz phenocrysts, Quartz Monzonite? (Grab)
SWM-89-19	See Map	Altered Quartz Monzonite, chloritic and hematitic, fractured, bedrock in old cat trench. (Grab) 18

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Sample #	Location	Description
SW-89-C1	Unknown	Very pyritic, quartz rich breccia. Pyrite >30%; Quartz >20%; remainder altered to ?? BQ core.
SW-89-C2	Unknown	Chlorite altered Hybrid Quartz Monzonite. Chlorite >60%; strong mineralization chalcopyrite and pyrite. BQ core.
SW-89-C3	A3 460'-?	Granite: moderate secondary silicification; moderate K-feldspar metasomatism; moderate mineralization pyrite and chalcopyrite. AX core.
SW-89-C4	Unknown	Quartz Diorite, relatively unmineralized; low K-feldspar index; mafic minerals 30-40%; altered? AX core.
SW-89-C5	Unknown	Hybrid Quartz Monzonite. K-feldspar content variable up to 30% also strong chlorite alteration; quartz veinlets 20-30%; moderate mineralization pyrite and chalcopyrite 2-3%. BQ core.
SW-89-C6	A1 30' to 60'	Quartz Syenite/Granite. K-feldspar 70-80%; mafic minerals 10-20%; quartz 5-10% occasionally as veinlets. Epidote as occasional stringers mineralization weak to moderate where core is a breccia. AX core.
<b>S₩-</b> 89-C7	Unknown	Quartz flooded rock almost completely silicified with quartz veinlets (stockwork?). Molybdenite? 1%; pyrite and chalcopyrite as veinlets and disseminated grains 2-3%. BQ core.
SW-89-C8	B2 Box 14 308'-333'	Granite? Quartz flooded; pyrite as disseminated grains; hematite staining associated with best chalcopyrite mineralization; chalcopyrite 3-4% as disseminated grains and veinlets. Chalcopyrite replacing mafics comagmatic (D. Petersen pers. comm.). BQ core.

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Sample #	Location	Description
S₩-89-C9	Unknown	Quartz Diorite to Quartz Monzonite. Where secondary K-feldspar present quartz content increases. Carbonate veinlets present. Moderate mineralization 1-2% pyrite as disseminated grains and trace chalcopyrite. AX core.
SW-89-C10	Unknown	Granodiorite? Granite. Breccia clasts within core; epidote present; mineralization variable weak to moderate 1-2% pyrite and trace molybdenite? BU core.
SW-89-C11	Unknown	High grade copper ore found on ground where core was tipped out of boxes.
SW-89-C12	Unknown	Granite. 10-15% quartz; 10-15% mafic minerals; epidote as veinlets and blebs, blebs associated with quartz; strong chlorite alteration on fractures. Moderately mineralized chalcopyrite 1%, trace pyrite, trace bornite? BQ core.
SW-89-C13	Unknown	Granite. Strong epidote alteration up to 10% epidote present; chlorite alteration, weak mineralization up to 1% pyrite. BQ core.
SW-89-C14	Unknown	Granite originally? Breccia with intense chlorite alteration; strong mineralization 2-3% pyrite. BQ core.
SW-89-C15	Unknown	Quartz flooded rock, breccia with a strong iron stain. Pyrite 1-2% as blebs. BQ core.
SW-89-C16	Unknown	Monzonite to Diorite (Monzodiorite?). Mafic minerals 40-50% predominantly biotite, core magnetic in spots. A single quartz vein present with K-feldspar/quartz clasts. Weak mineralization trace pyrite and chalcopyrite. AX core.

Sample #	Location	Description
SW-89-C17	Unknown	Granite. Moderately to strongly fractured with chlorite alteration. Pyrite and chalcopyrite 1% present in fractures. BQ core.
SW-89-C17a	Same box as previous sample	Strong argillic? alteration, leached sulphur, 20-30% pyrite, core has gone to dust in core box. Somewhat similar to material found around trench sample T1A. BQ core.
SW-89-C18	Unknown	Strongly altered rock (chlorite, silicification, clay? others?) originally a granite? strongly mineralized sulphides 2-5% chalcopyrite, pyrite, bornite? BQ core.

## APPENDIX 4

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## Geophysical Survey Report; A. Scott

### LOGISTICAL REPORT

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#### INDUCED POLARIZATION/RESISTIVITY SURVEYS

SWAN PROPERTY, TAKLA AREA, B.C.

on behalf of

EASTFIELD RESOURCES LTD. 110 - 325 Howe Street Vancouver, B.C. V6C 127

# Field work completed: July 10 to 21, 1989

bу

Alan Scott, Geophysicist SCOTT GEOPHYSICS LTD. 4013 West 14th Avenue Vancouver, B.C. V6R 2X3

August 8, 1989

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#### 1. INTRODUCTION

Induced polarization and resistivity surveys were conducted over portions of the Swan Property, Takla Area, B.C., within the period July 10 to 21, 1989. The work was conducted by Scott Geophysics Ltd. on behalf of Eastfield Resources Ltd.

The pole dipole electrode array was used on the induced polarization survey, with an "a" spacing of 50 meters and "n" separations of 1 to 5, except for lines 200S and 400S which were read at "n" separations of 1 to 10. The current electrode was to the east of the receiving electrodes on all survey lines.

#### 2. SURVEY LOCATION

The Swan Property straddles Kwanika Creek, approximately 12 kms northeast of Tsayta Lake. Access to the survey area is from the Takla Landing road some 60 kilometers west of Manson Creek.

#### 3. SURVEY GRID AND SURVEY COVERAGE

A total of 23.3 line kilometers of induced polarization survey were completed on the Swan Property. Details of lines surveyed are given in the production reports.

4. PERSONNEL

Ken Moir, technician, was the party chief on the survey and operated the IPRI1 receiver. Bill Morton, geologist, was the Eastfield Resources' representative on site for the duration of the survey.

#### 5. INSTRUMENTATION AND PROCEDURES

A Scintrex IPR11 time domain microprocessor based receiver and a Scintrex TSQ4 10 kilowatt transmitter were used for the induced polarization survey. Readings were taken using a 2 second on/2 second off alternating square wave. The chargeability for the eighth slice (690 to 1050 milliseconds after shutoff; midpoint at 870 milliseconds) is the value that has been plotted on the accompanying plans and pseudosections.

The survey data was archived, processed, and plotted using a Sharp PC7000 microcomputer running Scintrex Soft II and proprietory software. All chargeability values were analyzed for their spectral characteristics using a curve matching procedure (Soft II).

#### 6. RECOMMENDATIONS

A preliminary examination of the results of the induced polarization survey indicates the presence of moderate to strong chargeability highs that merit further work.

Correlation of the results of this survey to geological and geochemical information, is required before any specific recommendations could be made.

Respectfully Submitted,

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Alan Scott, Geophysicist

APPENDIX 5

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APPENDIX 6

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Summary of Previous Drilling

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HOGAN MINES - DRILL HOLE RESULTS (1965)
X-1: 47 ft. @ 0.26% Cu
X-2: 40 ft. @ 0.53% Cu
CANEX AERIAL - DRILL HOLE RESULTS (1966)
A-1: (60,800 N/5,800 E, -90 )
      0-15 casing
                                                   15-110 -Kspar, ser, chl, epid, calc
      15-137 - syenite
                                                   110-170 -chl,carb,clay,(serp)(hem)
                                                   170-270 -Kspar, chl, carb, (hem)
      137-170 - chl. schist, bx (m.syenite)
                (chl, serp, graph alt'n)
      170-464 - syenite
                                                   270-450 -Kspar, chl, carb, (hem), epid
        (unit 6/6A)
                                                   450-464 -chl,ser,carb,clay
      150-160: 0.11% Cu x 10'
      270-280: 0.11% Cu x 10'
                (rest of hole < 0.11\% Cu)
A-2: (60,000 N/1,200 E, -90 )
                                                   49-180 -Kspar, chl, carb, epid(clay)
      0-49 casing
              - syenite (m.granite)
                                                   180-200 -chl, clay, carb
      49-93
      93-102 - fault gouge (graph)
      102-201 - syenite
        (unit 7(9) interfingering with unit 6/6A)
                0.062% Cu x 40'
      50-90:
      90-140:
                0.154% Cu x 50'
      140-170: 0.07% Cu x 30'
      170-200: 0.183% Cu x 30'
      50-200:
                0.118% Cu x 150'
A-3: (59,200 N/1,400 E, -90 )
                                                           -(clay), epid, chl, carb
      0-54 casing
                                                   54-90
      54-90 - gnte
                                                   90-180 -chl,clay,carb
      90-200 - gndte (Qtz Dte)
                                                   180-200 -clay,epid,chl,carb
        (unit 7(9) interfingering with 6/6A)
                0.128% Cu x 46'
      34-80:
      80-130:
                0.40% Cu x 50'
      130-200: 0.181% Cu x 70'
      34-200:
                0.232% Cu x 166'
A-4: (60,800 N/7,400E, -90 )
            - casing
                                                   106-325 -clay, chl (epid) (Kspar) calc
      0-106
      106-325 - Qtz Dte (m.pegmatitic dykes)
                                                           -weak alt'n
        (unit 6 cut by pegmatitic dykes of 9(7)?)
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no assays

A-5: (60,800 SNS/6,600 E, -90 ) 0-42 casing 42-220 -chl,calc,(epid,hem),(qtz) 42-50 - gnte -weak alt'n - dyke 50-61 61-69 - bxt'd - silcfd.69-120 - andesite (dyke?) 120-220 - gnte (unit 7 (9) cut by large andesite dyke) 170-220: 0.16% Cu x 50'; no other assays A-6: (62,400 N/6,350 E, -90)0-98 casing 98-105 - Fldsp. Porph 98-311 -qtz, (hem, calc, arg) -weak alt'n 105-111 - gnte 111-130 - syenodte 130-186 - gnte 186-190 - syenodte 190-311 - gnte (unit 7(9) cutting unit 6) only 2 samples, no numbers A-7: (63,250 N/7,500 E, -90 ) 0-81 casing 81-278 -chl, carb (m.epid) 81-167 - gndte 167-198 - bxt'd, sh'd gndte -wk alt'n 198-203 - gndte 203-246 - Bx, shear (unit 9) 246-278 - gndte 2 samples, no numbers A-8: (58,200 N/7,000 E, -90 ) 0-15 casing - gnte 15-298 -chl,Kspar,carb,qtz (clay)(hem) 15-24 24-32 -generally weak alt'n-mod. - no recovery 32-55 - gnte 55-75 - shear, gnte.Bx 75-298 - gnte, abund.bxt'n + shearing (unit 6/6A, interfingers of 7(9) 15-24: 0.03% Cu 0.04% Cu 55-65: 75-85: 0.12% Cu 85-180: 0.048% Cu 210-298: 0.058% Cu no other sampling

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A-9: (58,200 N/6,500 E, -60 / 270)0-15 casing 15-93 - syenite 15-67 -Kspar, Chl, epid 93-100 - mylonite 67-200 -arg,ch1(hem) 100-106 - syenite 200-300 -arg,Kspar,qtz,calc 106-132 - mylonite 300-355 -arg, ch1, qtz 132-180 - syenite 180-200 - bxt'd. shear 200-355 - syenite (shearing) (unit 6) 80-90: 0.02% Cu 170-180: 0.02 190-200: 0.05 220-230: 0.05 250-260: 0.12% Cu no other sampling A-10: abandoned @ 27' (58,400 N/7,300 E, -60 /brg 90 ) A-11: (51,200 N/9,050 E, -90) 0-20 casing 20-128 - qtz,dte -wk chl (m.qtz,calc) (unit 5) GREAT PLAINS DRILL HOLE RESULTS (1969, 1970 (C-1,2)) B-1: (59,200 N/5,750 E,west bank, -75 /90 ) 0-7 casing 7-160 - granodiorite 0-160 -dom.,epid-chl (qtz) 160-180 - qtz, diorite 160-200 -chl.clay,Kspar,qtz 180-190 - gndte 200-340 -chl,clay (epid,calc,qtz)(hem) 190-210 - qtz diorite (bxt'd) 340-390 -Kspar, qtz, chl 210-250 - gndte 250-300 - qtz,dte 300-360 - gndte 360-390 - qtz,dte (unit 6A) 10'-110': 0.087% Cu x 100' (140-390: 0.34 x 250'; 140'-300': 110-390': 0.317% Cu x 280' 0.43 x 150'; 300-390: 0.22 x 90') 10'-390': 0.256% Cu x 300' B-2: (90 /-75, E. end of Trench 2W) 0-10 casing 10-20 - qtz dte 10-140 -epid, chl, calc, clay 20-70 - gndte 140-200 -clay,Kspar,qtz,(m.epid)chl. 70-90 - qtz dte 200-360 -chl, clay, calc(epid) 90-110 - qndte 360-381 -qtz,Kspar,clay 110-120 - qtz dte 120-197 - gndte 197-212 - syenite, syenodte 212-381 - gndte (syneodte, dte) (unit 6A cut by 7(9))

- 3 -

10'-260': 0.217% Cu x 250' 260-320: 0.446% Cu x 60' 320-381: 0.178% Cu x 61' 0.247% Cu x 371' 10-381: (60,020 N/5,250 E, 90 /-65)B-3: 0-84' - o/b casing 84-121 - syenite 84-402 -chl,epid,clay,(hem),calc 121-142 - gndte 142-148 - qtz dte 148-207 - gndte 207-218 - qtz dte 218-243 - Bxt'd zone 243-402 - gndte (black argillite 320-321) (unit 6A?) 390-400: 0.14% Cu x 10' (60,200N/5,625 E-west bank Kwanika Cr, 105 /-75 ) B-4: 0-22 casing 22-432 - gndte (qtz dte; and dykes) 20-70 -chl, clay, qtz, calc (m.hem) (unit 6/6A?) 70-150 -qtz,Kspar,chl,clay 20-180: 0.134% Cu x 160' 150-220 -clay, chl, qtz, epid, hem, calc 180-210: 0.386% Cu x 30' 220-432 -clay, chl, qtz, Kspar, calc, (epid) 210-430: 0.16% Cu x 220 20-430: 0.166% Cu x 410' (290 /-75 ) (58,800 /? ) B-5: 0.12 casing 12-90 - granite 12-195 -clay,qtz,calc (hem) chl 90-103 - syenite 195-267 -clay,Kspar,qtz 103-359 - gndte (granite) 267-359 -chl, clay, calc (qtz, m.Kspar) (unit 7(9) breccia) 1 sample no number C-1: 0'-610': unit 6/6A epid-chl-Kspar 0-610': 0.17% Cu 610-1,192': 0.06 610'-1,142': unit 7(9) 0'-620': unit 6/6A epid-chl-silica 0-620': 0.21 C-2: 620-1,170': 0.04 620'-1,170': unit 7(9) BOW RIVER RESOURCES PERCUSSION HOLE RESULTS (1972) (all -90)

- P-1: 10-300 ft: 0.04% Cu
- P-2: 30-300 ft: 0.03% Cu
- P-3: 50-300 ft: 0.09% Cu
- P-4: 30-300 ft: 0.16% Cu
- P-5: 30-300 ft: 0.17% Cu
- P-6: 30-300 ft: 0.15% Cu

- 4 -

### APPENDIX 7

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### Expenditure Statement

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#### SWAN PROJECT - EXPENDITURE STATEMENT

<u>MAY 1 - AUGUST 31, 1989</u>

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Professional Fees: G. L. Garratt J. W. Morton A. Buskas	2 days @ \$300/day 11 days @ \$300/day 55 days @ \$275/day	600.00 3,300.00 15,125.00
Field Personnel Fees: Pierre MacKenzie Shawn Novak Anne Serra Ian Hayton Ernie Pacholuk Terry MacKenzie	43 days @ \$200/day 43 days @ \$200/day 43.5 days @ \$200/day 7 days @ \$200/day 6.5 days @ \$200/day 6.5 days @ \$200/day	8,600.00 8,600.00 8,700.00 1,400.00 1,300.00 1,300.00
Camp Rental: Truck Rental: ATV Rental: Radio Rental: Generator Rental:	42 days @ \$150/day 49 days @ \$60/day 42 days @ \$50/day 3 handhelds @ \$37.50/wk June 8 - September 7	6,300.00 2,940.00 2,100.00 658.98 1,526.40
Transportation:	Helicopter .3 hrs @ \$500/hr 1.2 hrs @ \$500/hr 9.4 hrs @ \$484.79/hr Fixed Wing - Charter Scheduled Flight	237.50 150.00 600.00 4,557.00 4,208.00 924.00
Fuel: Travel Expenses: Field Equipment:		2,843.80 2,401.65 7,140.92
Analyses:	380 samples @ \$15.46/sample Petrographic	5,874.80 5.00
Sub-Contractors:	Geophysical- 23.3 km. I.P. Expediting Geological - 2 days @ \$325/day 6 days @ \$225/day 6 days @ \$200/day	15,851.99 714.00 650.00 1,350.00 1,200.00
Secretarial:		85.00
Communication:	Radio Rental Telephone	103.90 310.29
Reproduction: Freight: Drafting: Miscellaneous: Food:		56.30 1,773.99 831.94 129.88 5,561.35
5% cash handling charge on \$214.2510.71		
	TOTAL	\$120,472.40

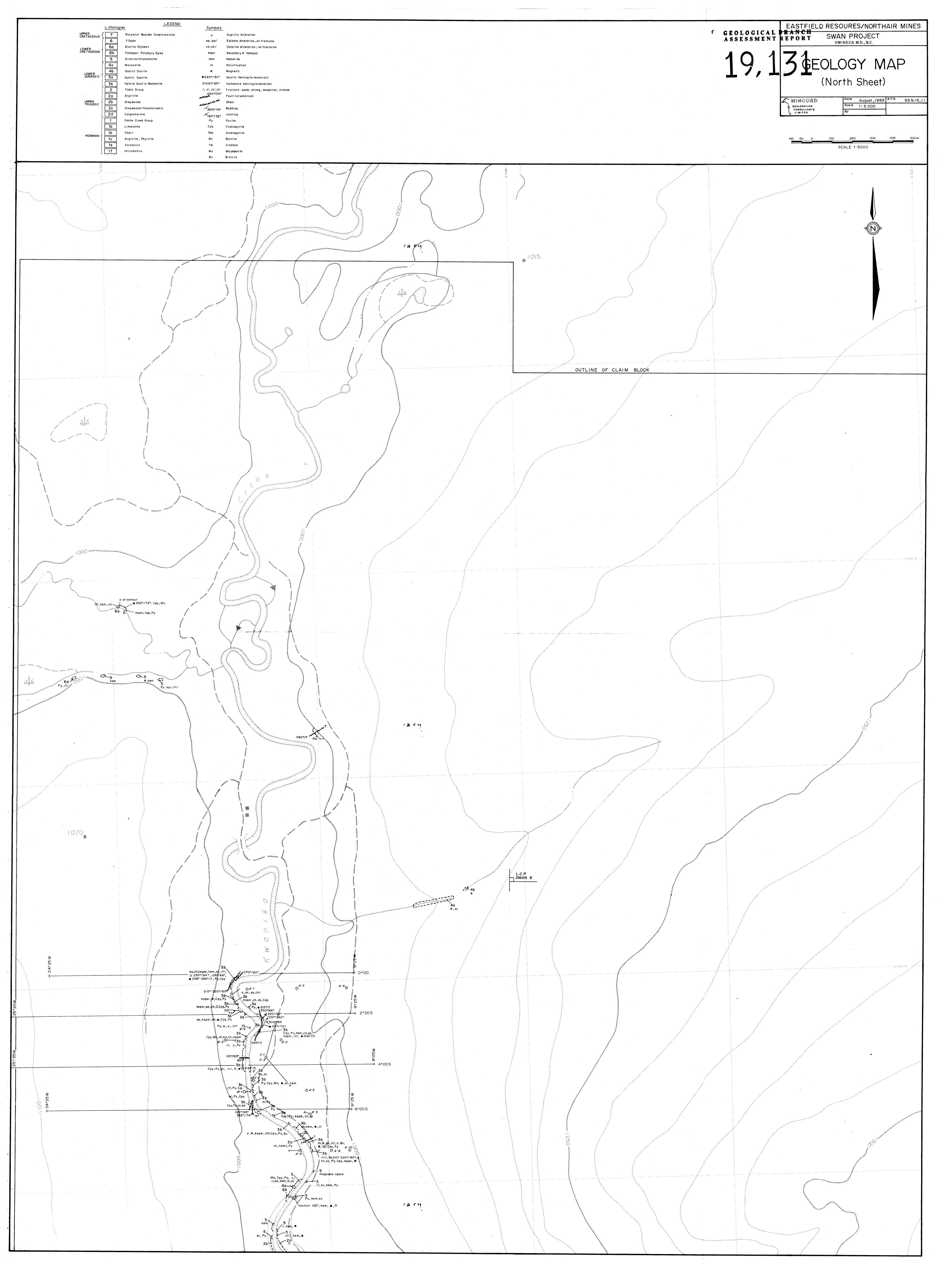
#### SWAN PROJECT - EXPENDITURE STATEMENT

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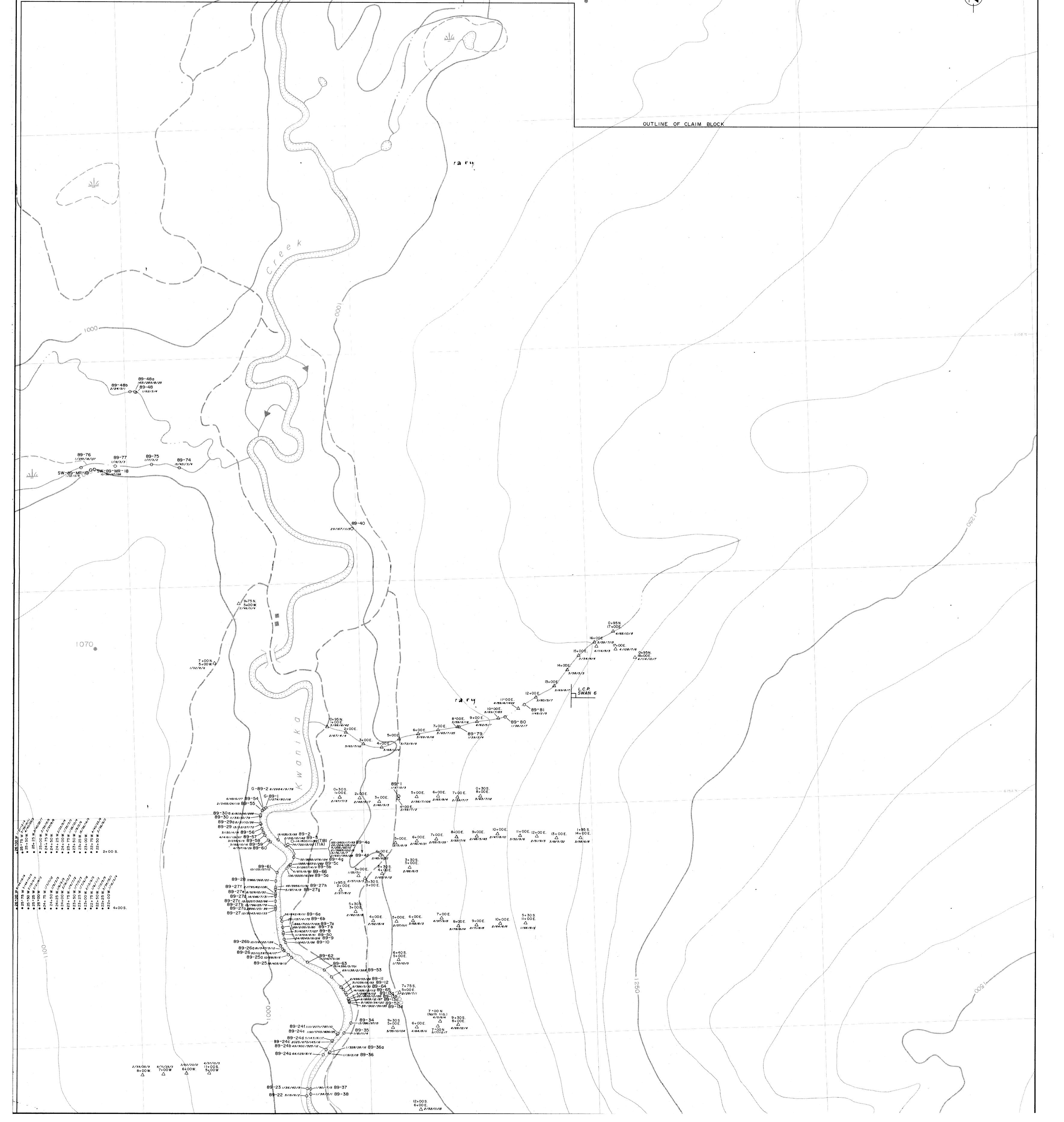
<u>MAY 1 - AUGUST 31, 1989</u>

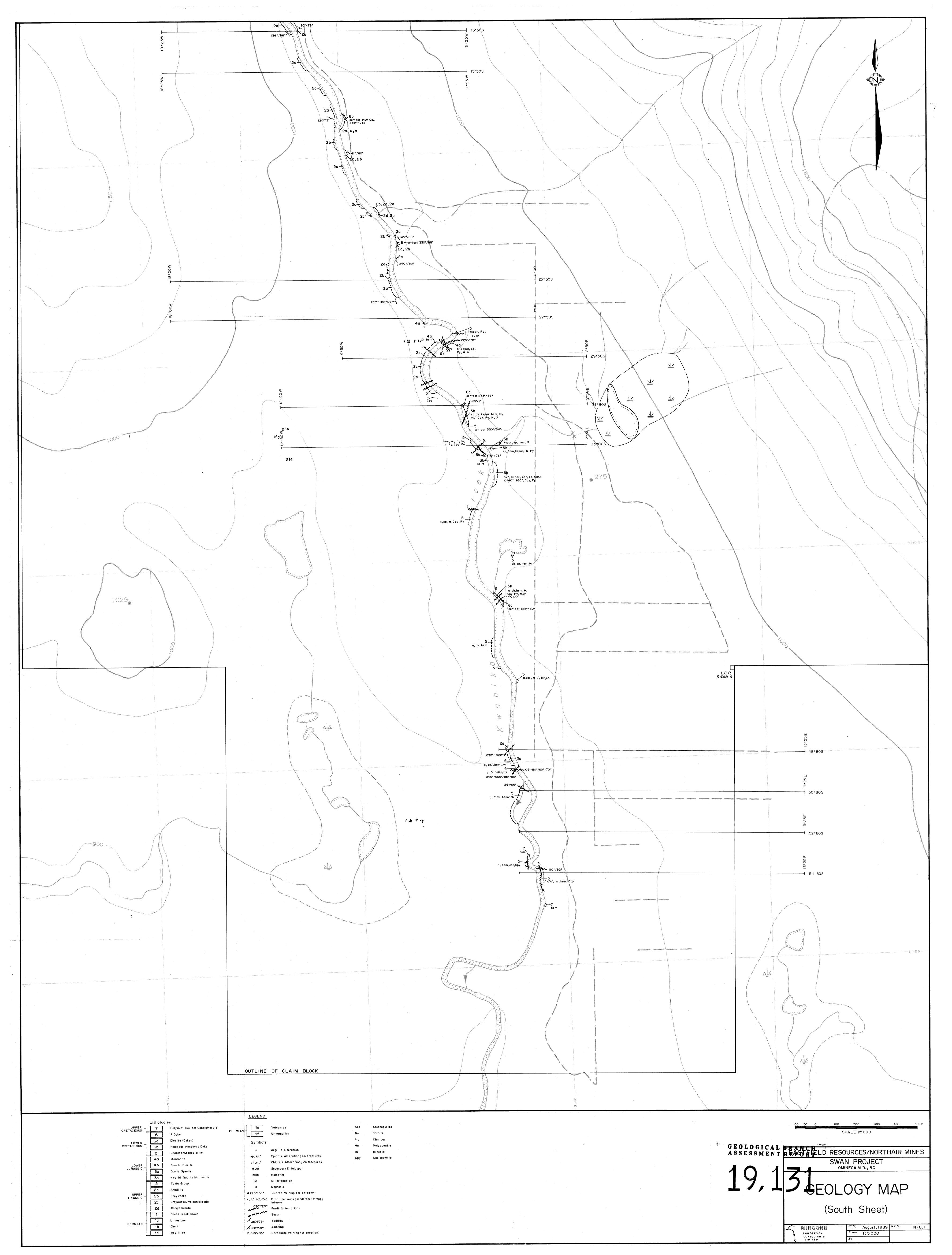
Professional Fees: G. L. Garratt J. W. Morton A. Buskas	2 days @ \$300/day 11 days @ \$300/day 55 days @ \$275/day	600.00 3,300.00 15,125.00
Field Personnel Fees: Pierre MacKenzie Shawn Novak Anne Serra Ian Hayton Ernie Pacholuk Terry MacKenzie	43 days @ \$200/day 43 days @ \$200/day 43.5 days @ \$200/day 7 days @ \$200/day 6.5 days @ \$200/day 6.5 days @ \$200/day	8,600.00 8,600.00 8,700.00 1,400.00 1,300.00 1,300.00
	42 days @ \$150/day 49 days @ \$60/day 42 days @ \$50/day 3 handhelds @ \$37.50/wk June 8 - September 7	6,300.00 2,940.00 2,100.00 658.98 1,526.40
Transportation:	Helicopter .3 hrs @ \$500/hr 1.2 hrs @ \$500/hr 9.4 hrs @ \$484.79/hr Fixed Wing - Charter Scheduled Flight	237.50 150.00 600.00 4,557.00 4,208.00 924.00
Fuel: Travel Expenses: Field Equipment:		2,843.80 2,401.65 7,140.92
Analyses:	360 samples @ \$15.46/sample Petrographic	5,874.80 5.00
Sub-Contractors:	Geophysical- 23.3 km. I.P. Expediting Geological D. Bailey 2 days @ \$325/day W. Halleran 6 days @ \$225/day E. MacKenzie 6 days @ \$200/day	1,350.00
Secretarial:		85.00
Communication:	Radio Rental Telephone	103.90 310.29
Reproduction: Freight: Drafting: Miscellaneous: Food:		56.30 1,773.99 831.94 129.88 5,561.35
5% cash handling charg	re on \$214.25	10.71
	TOTAL	\$120,472.40

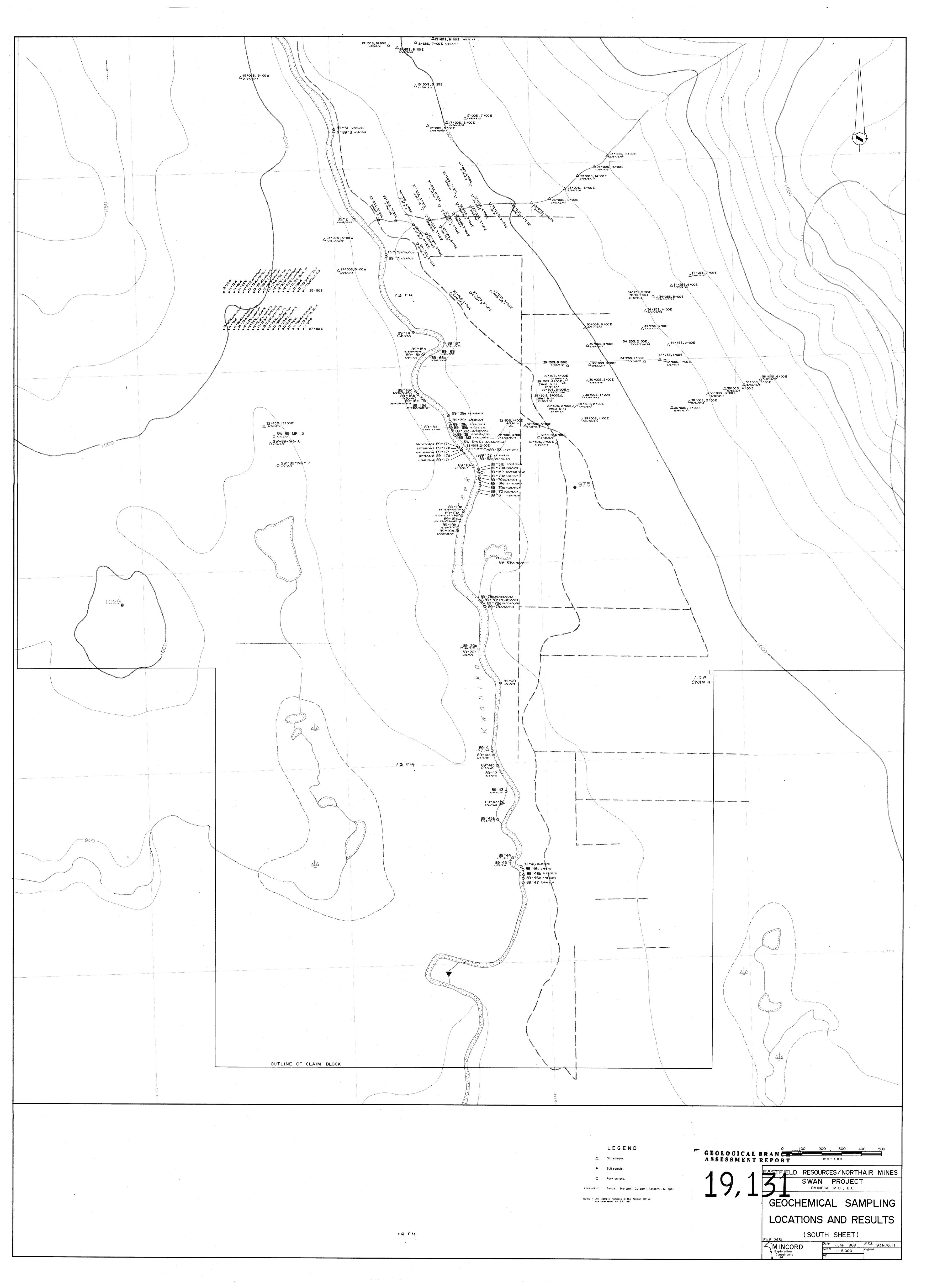
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## GEOLOGICAL BRANCH ASSESSMENT REPORT \*\*\* EASTFIELD RESOURCES/NORTHAIR MINES SWAN PROJECT OMINECA M.D., B.C. GEOCHEMICAL SAMPLING LEGEND LOCATIONS AND RESULTS $\Delta$ Silt sample. • Soil sample. (NORTH SHEET) FILE 2431 0 Rock sample Date June 1989 N.T.S. 93 N /6,11 Exploration Consultants Ltd. <sup>Scale</sup> | : 5 000 Figure Mo(nom), Cu(nom), As(nom), Au(nob) sample numbers in the format 89-x; re preceeded by SW-AB 500 400 200 300 metres • 1015







SEC  $\geq$ **ü** Ø ~ ~ · 2375 N 2325 N 2275 N 2225 N 2175 N 2125 N 2075 N 2025 N 1075 N 1925 N 1925 N 1075 N 1025 N 1075 N 1025 N 1675 N 1625 N 1575 N 1525 N 1475 N 1325 N 1325 N 1325 N 1225 N 1175 N 1125 N 1075 N 1025 N 975 H ഹ ESOURCES LTD. PROJECT ER: 0 SOUTH =1 TG TIME: 164.0 146.9 256.5 345.3 316.0 205.0 210.5 400.0 186. 200. 01 68.0 -- 193.4 186,0 223.6, 405.9 412.0, 223.9 699.0 494.0 756.0 563.0 581.0 513.0 SOUTH N=1 303.0-266.0 211.0 253.0 ,230.0 (590.0) 296.0 280.0 540.0 518.0 618.0 434.0 37.0 305.0 307.0 / 4044 2 66.0/ 104.0 235.0 198.0 (379.0 398.0 390.0 363.0 890.0 292.0 TX PULSE RECEIVE 2500 RESISTIVIT (60.0 130) (257.0 251.) (37.0 421.0 452.0 419.0 382.0 25.0 25.0 25.0 328 93. 1 154. 2 184. 2 18. 4 218. 4 242. 6 369.0 443.6 469.0 425.0 359.3 342.5 383.9 347.5 308.0 361.0 382.0 263.0 284.2 255.0 234.2 255.0 256.0 617.0 2 364.1 255.2 325.5 289.5 134.0 31):9 245.0 383.4 443.0 458.7 460.8 403.0 341.7 425.7 392.0 338.0 281.0 288:0 318.0 264.7 ~ 242:5 543.8 423.1 467.9 295.6 267.1 266.3 291.8 A-1 Kw.Ck. A- 5 -/-90° ---/-90\* (75m south) -/-90° UWHIN LINE NUM METRES METRES ARRAY SCALE \_\_\_ (75m south) (75m south) WITTER STATES EASTF JELD 1725 N 1675 N 1625 N 1575 H 1525 N 1475 N 1425 M 1375 H 1325 H 1275 H 1225 H 1175 H 1125 H 1075 H 1125 H 975 H 2375 H 2325 H 2275 H 12.3 2.9 3.0 2.7 2.6 Э. I 4.2 × 11.7 x 1753 19.2 12.6 3.5 5.7 50.0 1 1PR-11 -D1POLE 9.8 - 5.93 6.2 7.9 11.4 3.8 3.3 3.1 13.7 N 12-2 6.2 1. 8.5.0.0 8 3 11.2 1.6 (2.) 6.5 146 "A": SCINTREX ] POLE-F 13.7 18.6 3.18.6 1. 4 13.7 14.4 18.5 6.6 8.1 11.9 12.4 4.5 5.0 5.6 6.4 9.3 3.1 ц u 5 ¥.9 3.2 5.5 E 6.7 8.6 5.4 5.9 10.9 11.4 8.9 6.2 3.4 5.5 6.4 8.3 10.0 6.6 -7.6 6.0 4.8 A-1 6 SEC 00 1430 H 1390 H 1345 H 1300 H 1250 H 1200 H 1150 H 2725 N 2675 N 2625 N 2575 N 2525 N 2425 N 2425 N 2325 N 2325 N 2225 N 2275 N 2125 N 2125 N 2025 N 1975 N 1925 N 1875 N 1825 N 1875 N N N 10 II II III III 615.0 524.0 478.2 200 101.1 145.5 127.U Ea. 156.0 -185.5 177.2 208.3 200.3 230.3 208.6 157.0 131.3 154.7 142.2 138.0 / 251.2 268.5 430.2 306.2 407.1 1173,8, 39.7 598.0 Jely (240.0 369.0 205.0 263.0 203.0 200.0 197.0 200.0 182.0 234.0 (357.0 401.0 284.0) 418.0 180.0 480.0 480.0 560.0 600.0 447.0 213.0 105/0 103.0 103.7 118.7 -85.7 35.6 90. ¥ 56.4 2 And 244. 239.7 280.2 335.0 802.0 307.4 344.4 201.5 277.0 291.3 291.5 394.0 247.6 310.1 504.0 606.0 352.0 436 60.0 788.8 402.0 158.0 125. 70, 10, 0113.0 TX PULSE RECEIVE 500 STIVIT 10.2 82.3 30 35.3 3,5835 125.0 0.151 1.6 59.5 ~ \$\$.9\_) gitsp. 5.65 1 5.50 6 87.3 ADA 2 62.5 83. i ~72690-87.2 293.3 207.3 240.1 272.0 342.2 358.2 374.3 296.8 335.6 329.7 320.9 259.3 302.4 320. -285.0 383.0 517.5 346.0 489.3 721.0 665.0 ້າວອ.ວ ກຽວ.ັງ · 793.0 1.00 31-2 -58.5 88.5 108.0 94.0 114.0 john 203.0 203.0 203.0 204.0 365.0 365.0 404.0 382.0 344.0 332.0 205.0 206.0 293.0 205.0 249.0 306.0 522.0 362.0 364.0 522.0 594.0 102.0 09.0 279.0 3.0 Б (87.0 3x/0) 288.0 201.0 246.0 348.0 391.0 453.0 438.0 369.0 356.0 (255.0 205.0 213.0 264.0 219.0 237.0 263.0) 316.0 409.0 50.0 107.0 108.0 108.0 2:4 5:4 108.0 78.0 119.0 118.0 126.0 > Q AECEJ VER AECEJ VER ABRAY 8 113.0 SI ° ay. 0 stiel 3/6. a 222.0 283. b 364.0 448.0 445.0 463.0 319. p 274.0 254.0 202.0 171.0 170.0 204.0 251.0 301.0 448.0 467.0 103 3 ( 25.1) Vily 136.0 **1**,7 134.0 131.0 134.0 93. **A** 106.2 S O 10 9.2 26.5 63.1 149.8 107.0 137.4 135.5 135.7 9.2 106:4 318.8 240.0 924.0 372.0 446.0 455.0 397.0 278.0 290.0 234.0 169.0 175.0 188.0 205.0 215.0 311.0 470.0 B - 3 O 90°/-65° B-4 Hun Ch -/-90° 101.7 "H": 50.0 SCINTREX 1PR-11 I POLE-DIPOLE F 105%-75° Kw.Ck. (see also 4+00S) (see also 4+00S) (55m south) (125 m south) (125m south) aninn 7777 977777 2525 W 2475 H 2425 H 2375 H 2325 H 2275 H 2225 H 2175 H 2125 H 2075 H 2025 H 1975 H 1925 H 1875 H 1825 H 1775 H 1725 H 1875 H 1625 H 1575 H 1525 N 1475 K 2875 W 2775 W 2725 H 2675 W 2625 W 2575 H 1430 N 1390 W 1345 W 1300 N 4250 M 1200 H 1150 H 1100 H 1050 H 1000 H p 17-4 16.7 18.1 11.1 3.2 15.5 17.4 17.3 17.1 11.4 14 1.7 <u>۾ ۲</u>۱ ڪرا ا 1.7 1.9 7 22-7 3.2 2.6 2.6 ---- 2.4 2.8 2.7 - 8.2 . 9 1.2 1 6.2 Sr 72.8 B-3 10.1 7.9.1 10,000 : B 14.2 5 16,2000 3.2 3.5 3.8 4.1 2.1 16.4 , 41, 0, 5 έΞ s me. 015.0 Junz 7.1 6.1 6.2 4.0 4.1 5.6 6.6 16.4 2.3 9.ù э.9 0.4.1 3.5 4.1 12/6/ 2.3 `\B⁻4 1~ .4 4.5 7.3 7.0 ð 6.1 3.6 <u>13.0</u> 14.3 14.7 11.5 11.1 13.8 3.2 2.0 3,8 4.5 4.4 9 8 (13.5 13.6 14.3 14.4 16.3 72.4 **7.7** 13.7 13.6 6.8 4.0 В **7** 5 4.9 5.4 5.9 12.9 -12.2 14.6 17.1 5.9 4.2 3.9 5.6 3.8 4.2 7.4 5.3 7.0 11.6~\_ 12.5 10,0 (13.8 () 10,0 T 5.4 5.6 6.2 10.8 11.5 16.9 12.4 6 7.0 4.1 5.5 4.3 4.6 8.8 9.5 6.9 8.0 (11.4 OZ 5.2 6.0 6.5 7.2 7 8.**9** 3.8 4.5 5.9 8.8 10.3 10.0 10.5 9.9 8.3 16.7 4.9 4.3 6.4 13.0 4.8 10.50.0-10.1 9.4 8.1 6.4 7.0 8.3 5.9 10.0 13.8'5.0.1. 8 1.95 4.9 الرو ؟ 6,3 7.9 8.9 9.7 ž C 6.0) 0.3 3,8 4.8 з.\$ 5.5 6.8 6.9 (5.6 0 6.6 5.2 6.5 5.5 6.3 7.9 8.6 9.7 9.7 8.6 8.3 5.6 6.3 5.4 6.5 9 8.5 (19.2) 4.1 4.6 8.1 5.91 **8**.1 8.2 10 6.2 6.7 9.0 8.6 9.5 8.5 7.9 6.8 7.7 5.2 5.7 5.2 1.6 7.0 5.5 6.7 3.7 × 8.0 . . . . . . . . . . and the second second second second second second second second second second second second second second second The second

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the second second second second second second second second second second second second second second second s ي ي يو يو ي د هه چه . . . . . ပ္ မွ မွ ပို 5.0 5.0 1750 H 1400 M 1350 M 1300 M 1250 M 1200 M 1150 N 1100 M 1050 M 1000 M 950 M 900 K 850 K 800 K 750 K いっ EASTFIELD RESOURCES LTD. SAPA PROJECT LINE WWEES, 1350 SOUTH 155.0 137.0 118.0 197.0 -177.5 104:0 -219.8 365,0 196.0 154.2 255,4 201-3 210,9 129.3 150,6 150,183.3 241.4 812.0 288.8 330.9 345.2 231.0 253.6 196.0 154.2 255.1 258.1 119.0 107.0 8 140 0 242.0 230.0 262.0 371.0 //4.0 Seuth N=1 257.0 ( (20.0 185.0 200.0 15.5 136.0 124.0 183.0 246.0 277.8 36.0 310.0 335.0 20.0 215.0 214.0 \$26.0 83.0 101.0 119.3 192.0 217.0 337.6 102.3 17.91.7 111.3 194.6 217.4 346.1 25 t, Pulse Receive RESISTIVER 92.0 89.0 87.4/133.6 116.3 Jeu. 6 260.0 106.9 127.4 105.5 181.4 219.4 231.6 300.3 3042 288.0 268.3 245.0 200.0 200.0 273.7 109.9 188.7 270.8 190.8 127.0 190.5 176.7 180.7 180.7 200.0 252.8 287.0 128.3 348.2 296.5 62.3 60.4 179.5 132.4 187.9 250.8 191.7 138.6 99.1 168.5 170.0 283.8 248.0 311.1 386.5 378.5 79.3 ~~~~ 88.7 Kw.Ck. Line Point Point 1112 - 194-11 BELENES Scintees (Pet-11 BELENES Scintees (Pet-11 BELENES Scintees (Pet-11 BELENES 1750 M 1200 M 1650 M 1600 M 1550 M 1500 M 1450 M 1350 H 1300 H 1250 H 1200 H 1150 H 1100 H 1050 H 1000 H 1400 H 950 M 900 N 850 N 800 M 750 M 700 H 1 5.5 5.8 6.0 2.1 2.0 2.0 1.1 2.3 5\*3 4.6 4.1 7.6.\_\_\_7.2 8.6 8.8 ····s\_\_\_\_ 3.7 e. 2 9.5 5.8 . 8 1.5 2.2 2.3 4.6 3,9 6.8 9.1 8.0 ر 9.4 9.9 | ≅ 3 1.3 2.8 8.9 8.2 6. P. 4.1 3.3 3.1/ 1.2 1.2 212 4.5 4.1 · 15.2 8.1 9.5 10.3 6.6 **19.0** 9.7 8.8 3.6 2/4 2.8 2.8 4.9 4.3 8.1 \7.2 5.6 4.6 / 2.0 1.4 1.0 5.5 6.6 5.6 8.0 10.7 Ь1. ਜ਼ ਤ 2.4 2.2 3.5 7.4 5.4 P.S. 1.5 8.4 0.3 4.5 8.4 7.5 8.5 8.5 1.6 4.8 6.6 5.4 - 5.2 8.1 -----ပြင် မြေမြေ ကြေကို 1650 M 1600 M 1550 M 1500 M 1450 M 1400 M 1350 M 1360 M 1250 M 1250 M 1150 M 1000 M 1050 M 1000 M 950 M 900 M 850 M 800 M 750 M 700 M 650 M 600 M 550 M 500 M 1750 H 1700 H មច -140 - 20014 N=1 10 R=1 146: PECEIVE 1146: EASTFIELD RESOURCES LTD. SALT SECONCES LTD. ULLE VUNSER: 1550 SOUTH 126.6 1564.8 139.1 141.3 159.0, 242.0 126.1 189.6 -201.6 164.1 226.2 163.1 216.8 255.4 240.0 184.0, 133.9 146.1 130.5 208.9 215.3 405.3 313.0 232.0 240.3 10.0 141.0 148.0, 169.0, 253.0 335.0 144.0 123.0 162.0 256.0 257.0 165.0 177.0 153.0 195.0 127.1 134.6 139.9 175.0 239.0 372.0 383.0 379.0 264.0 133.3 120.6 143.4 157.0 228.0 0.001 30.0 123.0 162.0 250.5 302.5 302.5 302.5 135.0 139.9 145.4 150.6 239.0 200.5 303.0 368.0 133.3 120.5 143.4 157.0 228.0 0.001 30.0 123.0 162.0 250.5 302.5 302.5 302.5 302.5 302.5 137.4 150.6 128.4 150.0 128.5 142.4 150.5 142.4 150.5 142.4 150.5 142.5 544.9 169.1 222.0 187.0 142.0 120.0 141.0 148.0 169.0 253.0 335.0 144.0 123.0 46.3 146.3 133.3 120.6 143.4 157.0 228.0 308.0 249.0 38.1 90.8 220.5 302.0 282.0 150.0 100 1/6.3 146.3 133.3 120.6 143.4 /157.0 (228.0 308.0 249.0 F TH. 50.0 METER CINTREX (PR-11 FECEIVER SCINTREX (PR-11 FECEIVER PULE-CIPNLE ARRA) Kw.Ck. SCHLE 1750 M 1700 M 1650 N 1600 M 1550 M 1500 M 1450 M 1400 H 1350 H 1200 H 1250 H 1200 H 1150 H 1100 H 1050 H 1000 H 950 H 900 H 850 H ROO M 750 M 700 M 1 5.0 5.5 5.4 3.6 2.6 --- 2.3 1.8 2.0 1.5 1.9 2.0 1.9 2.9 4.0 5.3 2.6 6.1 5.6 5.7 -2.52.7 5 9.9 2.9 6.8 6.7 7.0 2.0 1.2 7.0 5.5 1 🖉 3 5.5 7.3 7.2 6.8 7.8 6.0 84.2 3.5 2.2 1.7 1.7 ×8.1 × 6.7 2.5 2.5 2.5 2.5 7.4 7.0 1.2 5.3 8.0 7.2 7.1 8.0 6.6 3.7 2.6 2.0 1.9 3. 3.4 6.2 6. 1 9.7 7.5 6.8 8.0 7.0 3.9 2.6 2.K 2.7 2.7 4.3 2.6 1.9 2.4 1.8 3. 8.5 7.1 6 and the second sec

700 H 650 H 500 M 550 M 500 M 450 M 400 M

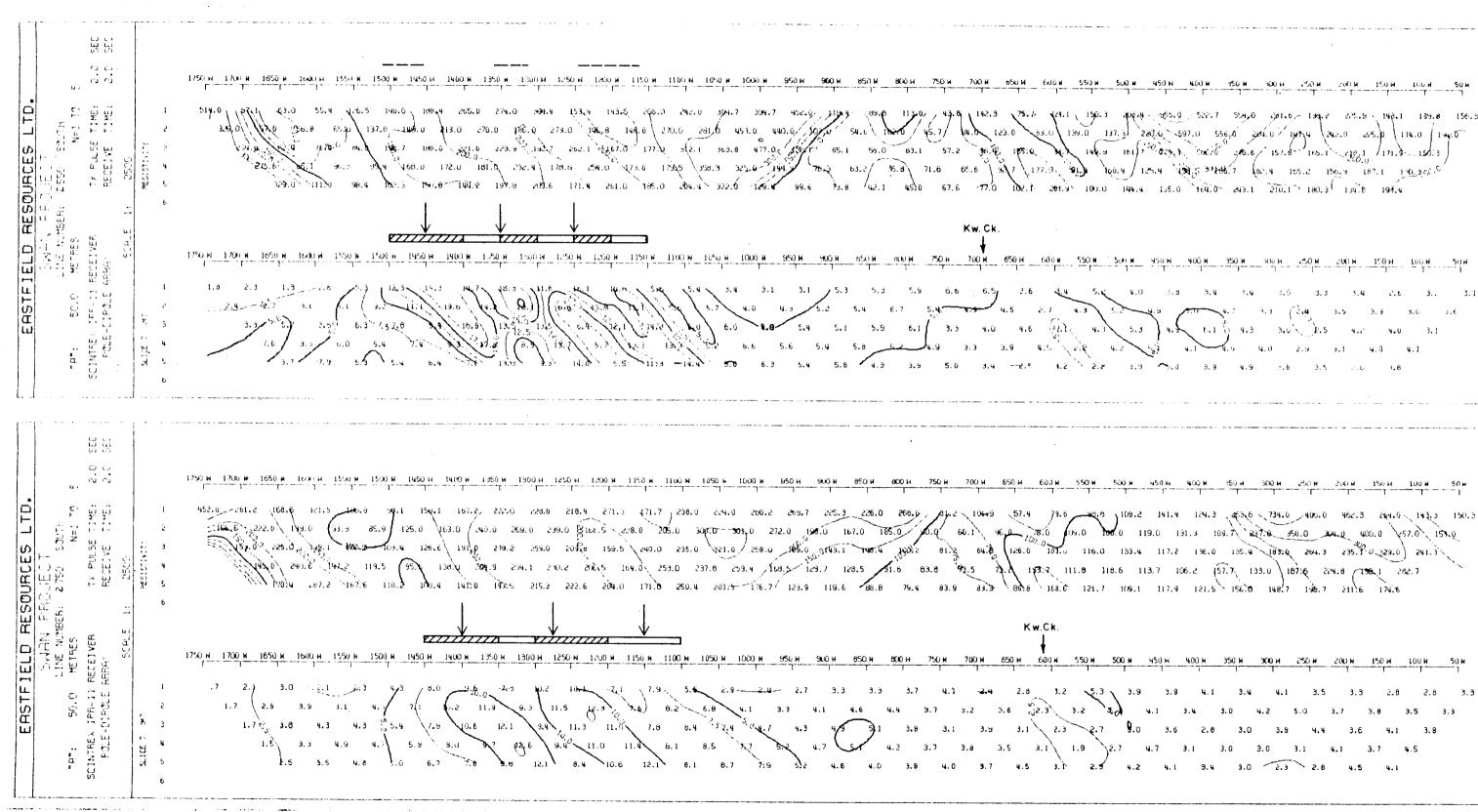
600 W 550 M ₩.2 5.7 €ر ب **X4.3** 3.1 2.8 - 2.3 9.0 5.8 5.7 5.6 4.3 3.7 3.4 **5.0-5.**0 6.7 8.5 <u>, 5.9</u>∖ 4.2 4.8 **4.5** 9.1 3.3

450 N 400 M

650 H 450 N 400 N 600 M 550 M 500 W 6.7 7.6 7.4 5.8 4.5 3.9 6.3 (8.1 8.0 7.7 7.2 5.8 0 4.8 7.6 6.1 5.8 17.3 7.8 7.2 6.3 7.0 5.2 5.8

GEOLOGICAL BRANCH ASSESSMENT REPORT

SEC SEC 00 2700 H 2650 H 2650 H 2550 H 2550 H 2450 H 2450 H 2350 H 2350 H 2250 H 2250 H 2250 H 2150 H 2050 H 2050 H 2050 H 1950 H 1850 H 1850 H 1860 H 1750 H 1500 H 1550 H 1500 H 1450 H 1450 H 1350 H 1350 H 1300 H 1250 H 1250 H 1100 H 1050 H 1000 H n' n' 0 SOUTH N=1 TO LSE TIME: VE TIME: 169.6 134.2, 57.4 1901 238.2 127.2 128.0 102.6 114.8 123.8 124.0 125.0 179.0 165.9 320.0 363.0/ 259.9 475.0 561.0 476.7 597.0 570.0 497.0 -514.0 379.0 312.0 350.0 79.6 145.2 138.0 148.0 BAS ( 147.0 124.2 0 25.2 85.1 58.2 (247.0 254.0 192.0 152.6 150.45.0 149.2 175.0 50.955.0 360.0 215.0 240.0 215.0 340.0 547.0 598.0 455.0 (654.0 580.0 430.0 388.0 380.0 230.0 250.0 ,60.°S  $\frac{1}{100} - \frac{1}{100}  g al 5 224.2 111.4 (170.8) 117.8 100 TX PULSE RECEIVE 68.4 3.58 e. TH E.231 0.051 3:40.9 (82.6 10**1** 87.9 45.0 35.9 138.9 107.0 125.6 Q.0 119.0 0.235 0.235 0.301 0.302 0.302 0.302 0.502 0.502 0.502 0.181 0.205 0.182 0.205 Q.68 68.2 12 11.0 78.4 226.0 378.0 338.0 335.0 338.0 274.0 282.0 202.0 207.0 193.1 163.0 229.0 278.4 343.0 445.0 446.0 360.0 360.0 366.0 354.0 354.0 LETNE NUMBERS METRES RECEIVER ABRAI 96.0 Sh,6 A.S. N2.0 **∖**(5.) 115.0 69.4 19.7 126.0 930 1253. 2 384.0 430.0 336.0 300.0 205 0 244.0 205 0 184.0 189.0 255.0 20.0 200.0 300.0 300.0 359.0 359.0 407.0 410.0 4. 2 3q. 8 3 (816.0 100.0 3. 9. 20 109.0 42.2 29.9 (115.5 109.0 42.2 29.9 116.0 1 77.2 i.5 (94.10 122.5) Хг.6 67.1 бол, 137.0 Хм.7 гобор 459.0 396.0 337.0 324.0 доэл.0 год.0 (180.0 181.1 164.9) 14Хо Хов.5 98.6 120.3 Хч.6 71.8 85.9 159.0 184.8 381.0 436.0 406.0 341.0 301:0 293.0 225.0 195.1 175.2 175.0 1 К.W.С.К. N2.6 67.1 80. 137.0 2,266,0 459.0 386.0 337.0 324.0 \$93.0 2.049 0.081.1 181.1 164.9 HTVO 227.0 283.0 245.0 232.0 356.0 394.0 428.0 10 145:0 199.0 232.0 224.0 272.0 391.0 428.0 "A": 50.0 SCINTREX IPR-11 F POLE-DIPOLE F C-1 C-2 A-2 015%-60° 140%-60° -/-90° (40mN) (40mN) (125mN) B-3 B-2 090%-65° 090%-75° (125mN) (20mN) B-3 77777 77777 2750 N 2700 N 2650 N 2600 N 2550 N 2500 N 1650 M 1600 M 1550\_M 2450 M 2400 M 2350 H 2900 H 2250 H 2200 H 2150 H 2100 H 2050 H 2000 H 1950 H 1900 H 1850 H 1800 H 1750 H 1700 H д 250 И 1200 И 1150 И 1100 И 1050 И 1000 И 5.6 ; 8.6 €ىك 3.6 16. K 2.8 -2.4 Δ-2 14.0 19.2 17.0 17.0 1 10.5 A 3.1 3.4 3.6 1.3 8.7 9.1 3.2 /4.6 4.3 11.3 13.2-7.9---17.4 -12.3 6.9 9.0 )7.3 `,≥<u>2</u>,1 1.14 5 11.4 4.0 4.3 5.5.3 6.0 8.8 3.8 11.9 69.4 8.8 1.7.3 8.6 6.3° 12.4 7.3 10.4 6.3 7.5 1.5 ~26 4.2 4.2 4.6 4.7 5.7 5.6 3.7 4.1 BLICE 16.x 10.0 11. B-3-B-2 12.6 12.1 11.1 5.7 1.9 9h 16.4 4.3 4.7 4.7 4.8 6.9 5. 6.6 7.2 7.0 6.0 4.0 10.0 8.7 9.0 8.8 (7.1) 11.0 15.5 9.9 10.11.12.5 16.4 16.2 iş" J 5.3 6.0 8.3 9.3 7.5 6.3 9.2 5.9 6.7 5.3  $\mathcal{Q}$ 6.7 7.0 <del>5</del>.6 δ.1 7.4 6.7 8.2 5. H 8.2 1.5 5. 8.5 2.0<sup>3.5</sup> 1j4.50\_, 6.6 . J 7.0 5.9 5.5 6.1 7.2 6.7 6.9 6.0 6.7 8.1 6.2 7/3 8.5 7/ 6.1 6.6 5.9 5.9 5.≀ 3.5 6.4 6.3 8.9 5.6 5.2 8.1 4.e -e.e / E.s. 8.2 7.4 6.3 6.6 4.9 4.8 5.5 6.1 7.8 -7.A 7.Ŭ **- • :** 9 6.4 7.0 8.2 13.5 ¥. ES 7.9 5.0 8.51 C-11 7 C-5 Ę. SEC SEC 00. 20. 20. **U** 22 2275 H 2225 H 2175 H 2125 H 2075 H 2025 H 1975 N 1925 N 1925 N 1825 N 1775 N 1725 N 1875 N 1825 N 1875 N 1525 N 1475 N 1425 N 1325 N 1325 N 1225 N 1175 N 1125 N 1025 N 1025 N 975 N 20 158.0 133.4 176.0 141.2 123.9 102.0 130.0 142.0 117.3 148.0 HB.O -167.1 272.1 135.9 304.0 316.7 442.7 603.0 651.0 270.0 210.0 140.2 109.6 104 <del>مكر</del>104 10 TIME: TIME: ~ 155.0 174.84 118.6 83.0 528.6 133.4 192.0 177.0 172.0 132.2 125.0 150.0 136.4 138.0 164.0 182.0 284.0 164.0 182.0 12.10 15.10 15.10 15.0 150.0 170.0 170.0 170.0 317.0 R R E TX PULSE RECEIVE 86.3 169.0 (2.7 73.6 80.0 130.7 191.6 738.2 170.2 148.0 138.0 164.2 149.0 173.0 197.4 257.0 199.7 43.0 115.9 197.0 555.0 510.0 570.4 0.0 397.0 455.0 170.9 110.0 150.0 110.0 1 186.3 169.0 12.7 RESOURCES 82.2 136.3 196.8 147.0 190.0 177.7 164.0 213.0 196.9 259.0 210.7 162.0 140.8 154.7 ~147.4 497.0 461.0 392.0 276.8 422.2 369.5 146.7 110.8 70.6 60.3 A L N L A-3--/-90° 090%-75 270 % -60 (95mN) CE B-5 A-8 290%-75° -/-90° (95mN) (200mS) N S M \_177777 (25mS) (200mS) 1575 H 1525 H 1475 H 1425 H 1375 H 1325 H 1275 H 1225 H 1175 H EASTF JELD 2375 H 2325 H 2275 H 2225 H 2175 H 2125 H 2075 H 2025 H 1975 H 1925 H 1875 H 1825 H 1775 H 1725 H 125 H 1075 H 1025 H 975 H IP4 P6 ' ₽5Ĭ 0 0 12.4 11.2 11.7 8.6 5.8-"R": J. SCINTREX IPF.11 F POLE-DIPOLE F 2.2 5.4 5.6 10.6 2.1 1.9 2.2 3.2 - 12.51 -12.51 -5.2 A-3 1 10.9 8.1 1A-85.21 t.1 t.5 t.U 1.5 **U**11.2 1.6 3.2 2.3 3.7 4.1 (2.6 3.0 3.5 40.4 9.3 6.9 -/-90°(25mS) 8.1 0.2 7.8 12. j-9. 24 ćų į 0 0 9.4 3.8 4.3 4.7 8.1 8.8 6.2 5.7 17.0 2245~ 2.2 5 2.7 3.6 ᡝᢋ Ìa,4⊥ P5 8.0-13.0 1013 12.9 13.6 8.5 B-5<u>4</u> 9.2 -/-90° (80mS) 6.1 8.8 6.5 (3,1) 2.2 3.4 4.2 (5,0) 5.4 (1,1) 7.5 (6,4) (1,1) 3.4 4.2 8.0 42.7 6 0 8.3 8.9 6.5 7:1 140 6.5 5.7 30,10 P6 6.3 7.9 6.6 3.9 5.8 9.3 8.2 6.1 9.8 -/-90° (40 m N) 8.6 8.2 ८ ◄ 6.0 يتمنهمه بالاستناب المراج .... لالد بسيوند هود مس الد and the second second -----



EOD M 550 W 450 M 50 H allip 44 - 555.0 - 522.7 554,0 - 201.6 - 194,2 - 275.9 - 148.1 - 189.8 - 156.3 220.4 -597.0 556,0 201.0 / 147,4 242.0 205.p / 114.0 / 144.0 42.1 4510 67.6 -17.0 102.1 201.9 100.0 144.4 1.5.0 Teil.0 243.1 210.1 180.3 134.8 194.4 <u>700 H 650 H 600 H 550 H 500 H 450 H 400 H</u> 350 M 150 И 50 H 5.4 5.2 **L** D 5.8 Эц 3.1 1.4 2.1 4.3 3.3 4.6 (2.). 4.3 5.3 4.2 6.1 4.3 3.0 . 2.5 8.5 1 4.5 4.2 <u>\_</u> 4.1~4.9 LL Ú 3.9 🔨.0 1.2 2.2 સંવ 500 M 450 N 400 N 550 W 350 и 300 и 250 и 183.7 111.8 118.6 113.7 106.2 (57.7, 133.0 187.26 224.8 136.1 282.7 Kw.Ck. 750 H 700 H 650 H 600 H 550 H 500 H 450 H 400 H 350 H 300 H 250 H 200 H 150 H 3.2 5.3 3.9 3.3 2.8 4.1 3.4 4.1 3.5 3.2 `s.) 4.1 3.4 3.0 4.2 5.0 £.5 1.E 2.7 **9**.o 3.6 2.8 3.0 3.9 3.1 1.9 12.7 4.7 3.1 3.0 3.0 4.5 3.1 4.5 3.1 2.5 4.2 4.1 3.4 3.0 4.5 4.1

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550 250 250 2.0 2.0 600 M 550 M 500 R 450 M 400 M 350 M 300 M 250 M 200 H 150 H 100 H 150 E 200 E 50 H 50 E 100 E 900 W 800 H 750 H 700 H 650 M ı, آ EASTFIELD RESOURCES LTD. SWAN PROJECT 128.0 1234.p 111.2 70,2 69.3 57.5 52.4 108.0 TX PULSE TIME: RECEIVE TIME: 166.6 73.4 -60.9 152:6 149.9 264.0, 105.0 1100 1418.0 545.0 264.2 <del>30</del>0.6 \_200,6 ≥36,6.⁄ 10 1 194,1 64.4 81.7 107.0 107.0 ( 21.0 N=1 . 216.1 211.0 2969.1 187.9 0.4 N. 3 84.00 69.8 2 238.0/ 153.2 157 30 106 PESI STIVITY Э /171.3 177.7 106.2 4. 106.9 107.3 121.6 130.0 130.0 ч . 1 2850 2950 (151.6 135. 118:4 322.2 19.2 162.0 161.7 146.0 135.5 137.0 159.0 130.7 109.1 106.8 129.7 116.7 153.\* N THU δ Kw.Ck. A-11 SCALE OWING LINE NUM METRIS RECEIVER RECEIVER 450H 400 H 350 H 300 H 250 N 200 H 150 N 100 H 550 H 500 H 50 H 200 E 1.8 \ 3.1 3.2 2.5 2.7 2.6 2.5 3.5 2.9 3.0. 0.ق Э. Э 4.0 3.0 Э. Ó 3.8 "9": 50.0 SCINTREX IPR-11 ( PULE-01PCLE F 3.3 3.8 Â-IÎ 3.3 2:2 3.1 5.0 3.9 3.7 1.8 \ 5.3 3.2 2.9 4.2 3.6 3.0 4.2 4.1 18 3 1.4 3.8 э. 1 2.5 ۵ı 2:2 3.6 2.9 2.7 4.9 4.2 4.0 2.8 5.8 2.8 2.3 3.4 3.6 4.4 s lite Sulte 2.8----2.6 2,7 4,9 4,1 4,0 3,8 2,8 3,4 4,2 3,6 2.9 (2,4 2.7 3.0 3.5 3.U ų 2.8 4.6 3.0 3.3 3.1 4.6 4.2 3.9 3.2 2.3 1.1 3.2 4.0 3.9 2.6 2.8 2.7 3.7 <sup>-</sup>2:4 SEC 00 750 M 700 M 650 M 600 M 550 M 500 M 450 M 400 M 350 M 850 W 800 W 300 M 250 H 200 M 150 M 100 H  $\frac{1}{2}$ 1150 M 1100 M 1050 H 10000 950 H 900 H · up EASTFIELD RESOURCES LTD. SWAN PROJECT LINE NUMBER: 2180 SOUTH SO.0 METHES N=1 TO 5 REX 1PR-11 RECEIVER TX PULSE TIME: NLE-DIPOLE ARRAY RECEIVE TIME: 256.0 219.0 269.0 201.0 535.0 201.0 535.0 201.0 535.0 107.1 201.0 500.0 107.0 319-0-5 TX PULSE 2500 RESISTIVITY Kw.Ck. SCALE 400 H 350 H 300 H 250 H 200 H 150 H 100 H 50 E 100 E 150 E 200 E 1150 M 1100 M 1050 M 10000 950 H 900 M 850 H 800 H 750 H 700 N 650 M 600 N 550 M 500 M 450 M 50 M 4.5 3.1 3.1 3.3 3.7 3.8 4.5 4.0 4.8 8.5 8.5 8.5 8.5 8.5 8.6 5.4 7.5 <u>2.3</u> 5.6 8.1 1.4 0.6 1.6 6.4 "R": 50.0 SCINTHEX 1PH-11 F POLE-DJPOLE P 5. 3---- 5.1 7.8 5.6.2 4.8 4.5 3.0 3.7 5.1) 3.9 4.6 5.5 3.1 3.1 4.2 5.4 5.7 5.3 8.4 3.6 3.8 й.з 4.2 3.3 4.2 3.9 3.9 8.1 6.3 7.0 5.7 БШ з 4.3 4.6 4.9 2.9 2.8 3.8 4.9 4.1 3.2 8.4 9.5 3.6 4.5 3.2 3.0 3.3 `:Z.0 6.5 6.9 714 5.4**(** 5.0 3 3 4.2 9.10E 7  $\begin{array}{c} 10.1 \\ 9.3 \\ \hline 1.4 \\ 9.6 \\ 10.0 \\ 9.4 \\ \hline 5.5 \\ 7.2 \\ \hline 6.6 \\ 2.8 \\ 4.3 \\ 4.7 \\ 4.7 \\ 4.7 \\ 4.8 \\ 4.5 \\ 5.4 \\ 4.4 \\ 3.2 \\ 3.7 \\ 2.7 \\ -2.5 \\ 3.5 \\ \hline 2.8 \\ 4.3 \\ 4.5 \\ 5.4 \\ 4.4 \\ 3.2 \\ 3.7 \\ 2.7 \\ -2.5 \\ 3.5 \\ \hline 2.8 \\ 4.3 \\ 4.5 \\ 5.4 \\ 4.4 \\ 3.2 \\ 3.7 \\ 2.7 \\ -2.5 \\ 3.5 \\ \hline 2.8 \\ 4.3 \\ 4.5 \\ 5.4 \\ 4.4 \\ 3.2 \\ 3.7 \\ 2.7 \\ -2.5 \\ 3.5 \\ \hline 2.8 \\ 4.3 \\ 4.5 \\ 5.4 \\ 4.4 \\ 3.2 \\ 3.7 \\ 2.7 \\ -2.5 \\ 3.5 \\ \hline 2.8 \\ 4.3 \\ 4.5 \\ 5.4 \\ 4.4 \\ 3.2 \\ 3.7 \\ 2.7 \\ -2.5 \\ 3.5 \\ \hline 2.8 \\ 4.3 \\ 4.5 \\ 5.4 \\ 4.4 \\ 3.2 \\ 3.7 \\ 2.7 \\ -2.5 \\ 3.5 \\ \hline 2.8 \\ 4.3 \\ 4.5 \\ 5.4 \\ 4.4 \\ 5.6 \\ 2.7 \\ 2.9 \\ 3.1 \\ 4.7 \\ 4.8 \\ 4.5 \\ 5.4 \\ 4.4 \\ 3.2 \\ 3.7 \\ 2.7 \\ -2.5 \\ 3.5 \\ \hline 2.8 \\ 4.5 \\ 5.4 \\ 4.4 \\ 5.6 \\ 2.8 \\ 4.5 \\ 5.4 \\ 4.4 \\ 5.6 \\ 2.8 \\ 4.5 \\ 5.4 \\ 4.4 \\ 5.6 \\ 2.7 \\ 2.9 \\ 2.7 \\ -2.5 \\ 3.5 \\ 2.7 \\ -2.5 \\ 2.8 \\ 4.5 \\ 5.4 \\ 4.4 \\ 3.2 \\ 3.7 \\ 2.7 \\ -2.5 \\ 2.8 \\ 4.5 \\ 3.5 \\ -2.5$ 6.0 A.V 8.5 8.2 V.E 8.5 E.E 3.6 5.4 3.3 2.4 2.6 3.3 2.5 2.8 3.9 5.5 6 SEC SEC 5 2.0 2.0 50 E 100 E 150 E 200 E N 00# 350 H 300 M 250 M 200 H 150 M 100 M 50 M 1250 H 1200 H 1150 H 1100 H 1050 H 1000 H 950 H 900 H 850 H 800 H 700 H 650 H 600 H 550 H 500 H 450 H 750 H IFIELD RESOURCES LTD. SWAN PROJECT LINE NUMBER: 3380 SM METRES RECEIVER RRAT  $83.0 \ 219.8 \ 214.0 \ -212.0 \ 201,1 \ 445.0 \ 393.4 \ 231.0 \ 174.0 \ 196.7 \ 219.0 \ 274.7 \ 207.4 \ 218.8 \ 232.0 \ 236.0 \ 194.0 \ 90.3 \ 96.6 \ 132.8 \ 70.8 \ 52 \ 1014.0 \ 511.0 \ 486.0 \ 341.9 \ 367.7 \ 309.2 \ 260.1 \ 232.0 \ 234.0 \ 199.0 \ 152.0 \ 88.7 \ 95.8 \ 120.0 \ 51.9 \ 70.8 \ 52 \ 1014.0 \ 511.0 \ 486.0 \ 341.9 \ 367.7 \ 309.2 \ 260.1 \ 232.0 \ 234.0 \ 199.0 \ 152.0 \ 88.7 \ 95.8 \ 120.0 \ 51.9 \ 70.8 \ 52 \ 1014.0 \ 511.0 \ 486.0 \ 341.9 \ 367.7 \ 309.2 \ 260.1 \ 232.0 \ 234.0 \ 232.0 \ 234.0$ 280.1 423.0 0.865 0.555 8.815 4.705 7.475 7.876 1.0.141 9.162 4.505 0.555 8.811 9.165 0.515 8.815 0.815 443.0 339.0 312.8 246.0 227.0 2 230.7 RESISTIVITI 2500 4 11. S` 6 Kw.Ck. SCAL 350 H 300 H 250 H 200 H 150 H 100 H 50 H 50 E 100 E 150 E 200 E 1250 H 1200 H 1150 H 1100 H 0 **4.3 5.0 5.7 5.5 4.1 3.6 3.5 4.2 4.2 3.9 5.0 2.9 2.7 1.8 4.2 3.0 2.8 2.9 2.7 2.8 2.9 3 5.0 5.1 5.1 6.1 6.0 5.3 4.8 4.3 4.8 3.1 3.9 5.0 2.7 2.1 2.3 4.8 3.6 3.9 3.9 4.0 3.8 3.8 5.0 5.1 5.1 5.3 6.4 5.8 5.6 4.9 3.2 2.7 4.0 5.2 2.1 2.3 4.8 3.6 3.9 4.5 4.9 4.7 4.5 4.4** 2.9 2.7 2.8 2.9 3.0 "A": 50.0 SCINTREX IPA-11 F POLE-DIPOLE A 1 5 3 6.7 9.2 5.5 6.3 7.1 S.O. 2,105 7 2,105 7 5.4 4.2 3.3 6.0 7.0 5.8 9.1 2.8 2.7 3.2 4.1 9.5 7.0 5.4 6.2 5.8 6.1 2.2 3.0 6.6 6.5 6.5 2.6 2.7 3.2 4.1 5.4 5.8 6.1 2.2 3.0 6.6 6.5 6.5 2.6 2.7 3.0 3.0 4.0 5.3 2.1 8.4 9.4 / <sub>5.9</sub> 2.4 6.4 5.4 2.3 5.5 4.8

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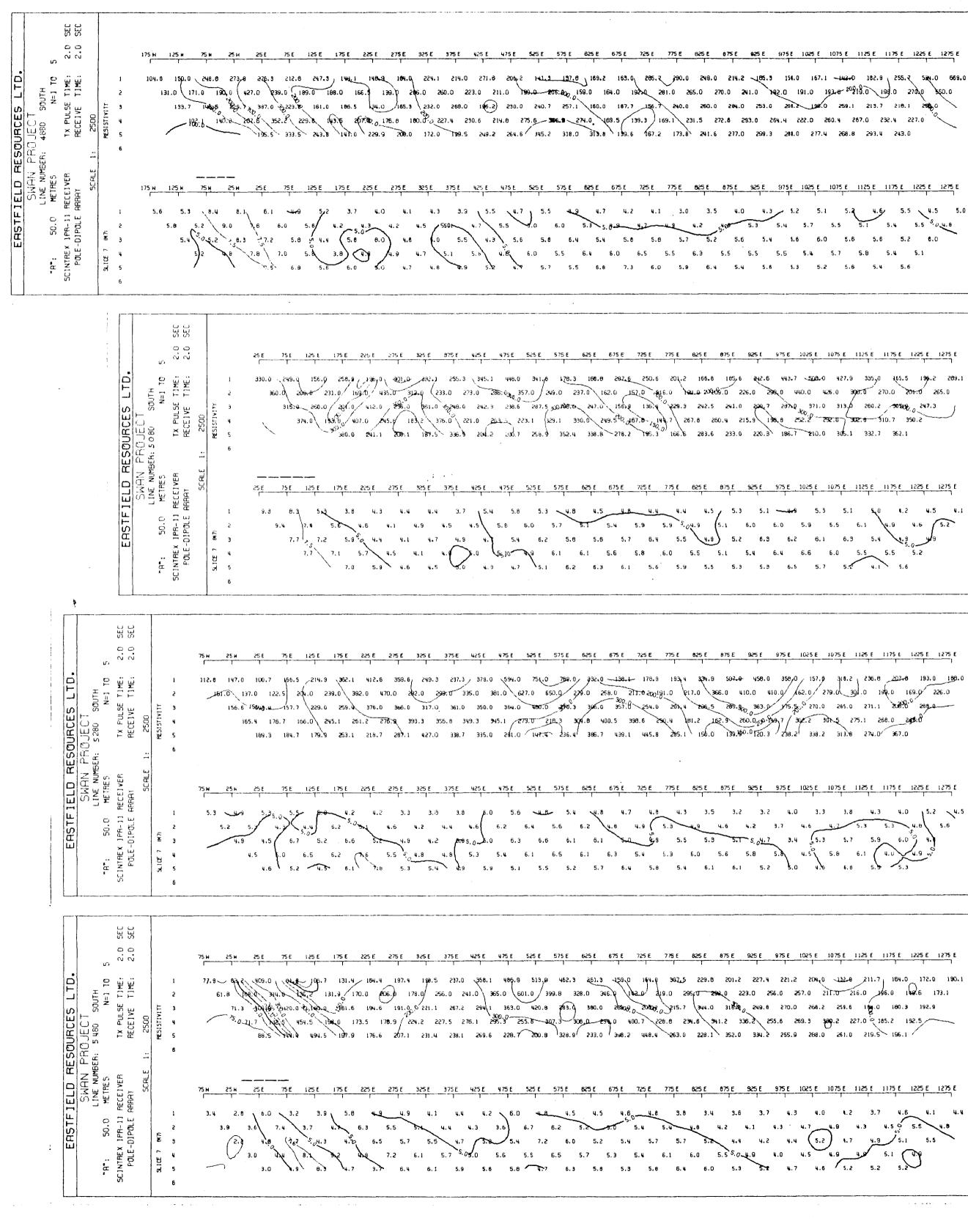
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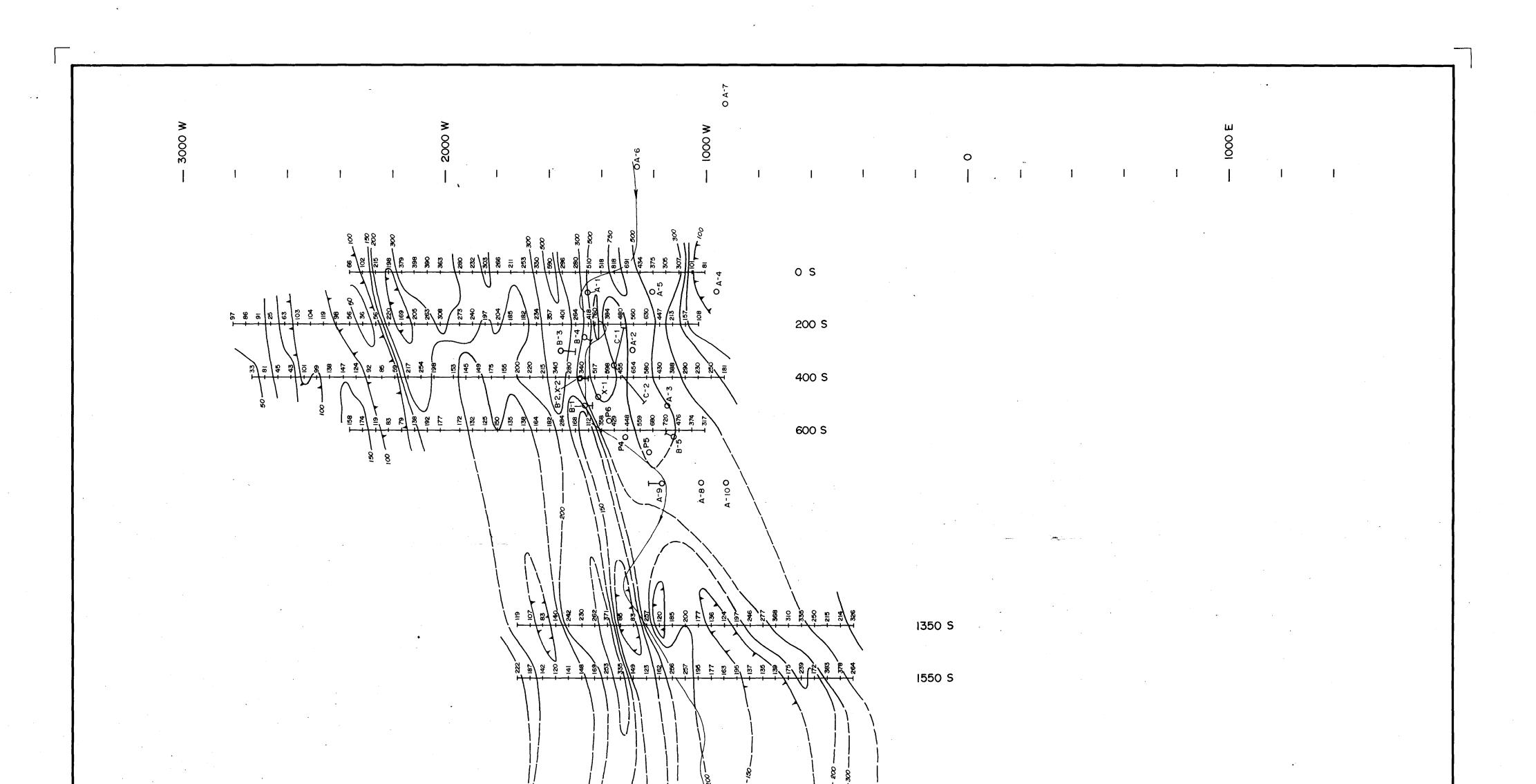
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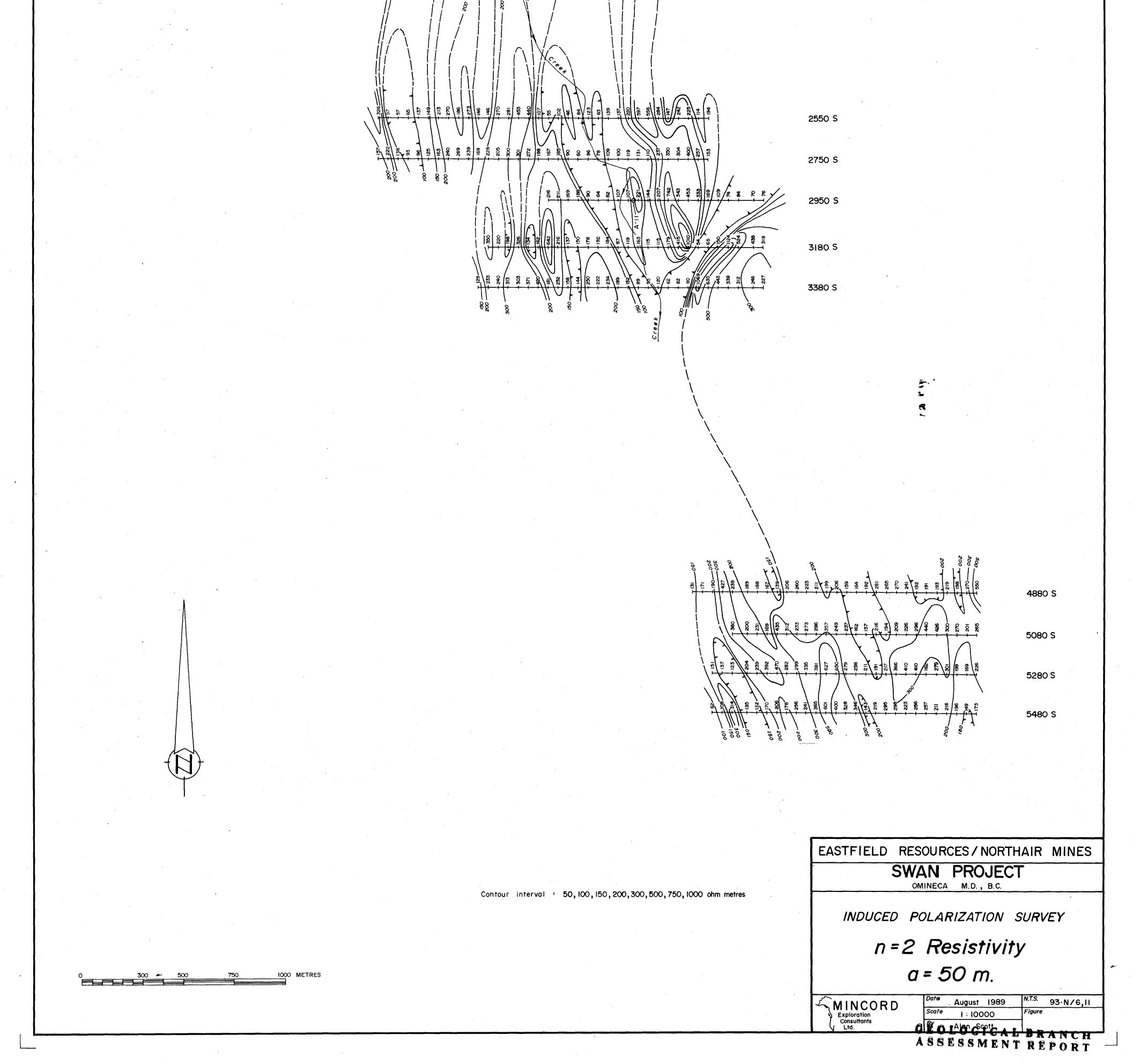
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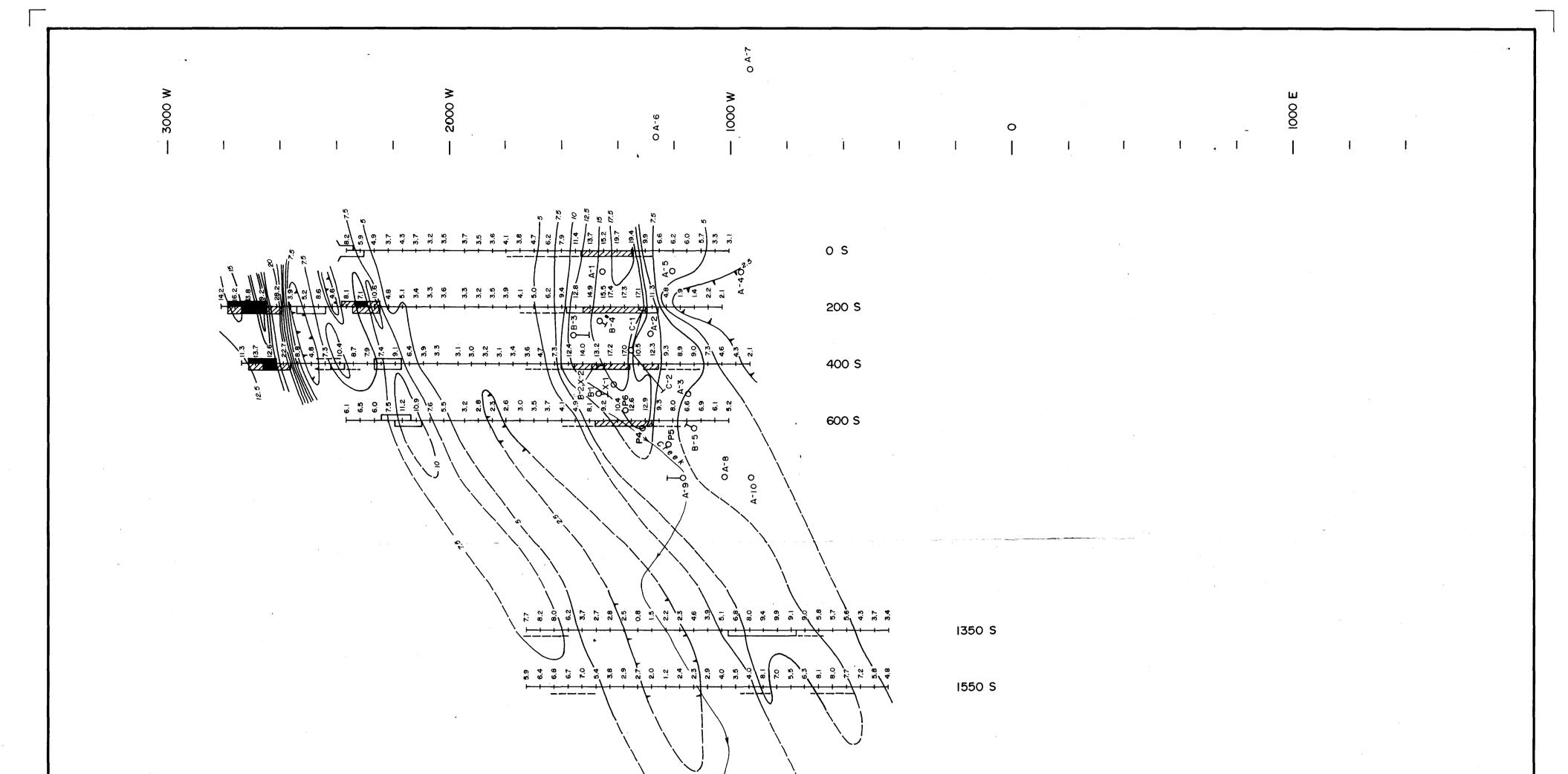
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