

ARIS SUMMARY SHEET

District Geologist, Prince George

Off Confidential: 92.09.11

ASSESSMENT REPORT 21648

MINING DIVISION: Omineca

PROPERTY: Swan
LOCATION: LAT 55 30 00 LONG 125 20 00
UTM 10 6152692 352611
NTS 093N11W 093N06W

CLAIM(S): Swan 1-2, Kwah 1, Nation 2

OPERATOR(S): Candela Res.

AUTHOR(S): Morton, J.W.

REPORT YEAR: 1991, 37 Pages

COMMODITIES

SEARCHED FOR: Gold, Copper

KEYWORDS: Jurassic, Hogem Batholith, Alteration halo, Pyrite, Chalcopyrite

WORK

DONE: Drilling, Geochemical

DIAD 549.0 m 4 hole(s);NQ

SAMP 156 sample(s) ;AU,AG,CU,ZN

RELATED

REPORTS: 04773, 04826, 19131

MINFILE: 093N 018, 093N 019, 093N 043, 093N 073

Diamond Drilling
on the
Swan Property

Omineca Mining Division

NTS: 93N/11W

93N/6W

Latitude: 55 degrees 32 minutes North
Longitude: 125 degrees 20 minutes North

Specific Claims:

<u>Claim</u>	<u>Units</u>	<u>Record No.</u>
Kwah 1	1	9901
Kwah 2	1	9902
Kwah 3	1	9903
Kwah 4	1	9904
Kwah 5	1	9905
Kwah 6	1	9906
Swan 1	20	10123
Swan 2	20	10124
Swan 3	20	10125
Swan 4	20	10126
Swan 5	20	10397
Swan 6	20	10398
Swan 7	20	10399
Swan 8	20	10400
Nation 1	18	9479
Nation 2	18	9480

Owner: Eastfield Resources Ltd.
Operator: Candela Resources Ltd.
Author: J.W. Morton, P.Geo.
Date: August, 1991

LOG NO: SEP 27 1991	RD.
ACTION:	
FILE NO:	Page

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**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

21,648

Summary

A field program consisting of road construction and four diamond drill holes, totalling 549 meters, was completed on the Swan claims during July, 1991. The purpose of the program was to test geophysical targets located to the north and to the west of an area where drilling previous to 1974, had outlined a resource of 36 million tons grading 0.2% copper*. No drilling was completed in the current program within 200 meters of this resource.

Drill hole 91-SW-01, the most northerly of the current program, was drilled to a depth of 139 meters and continuously cored pyrite mineralized intrusive (average 2 to 5% pyrite). The intrusive includes syenodiorite, hybrid and granitic types. Alteration in this drill hole is intense and consists of secondary silicification of the matrix and chloritization of the mafics. Potassium feldspar occurs copiously in both phenocrysts and matrix. Copper and gold values are low having maximum values of 0.11% Cu and 0.003 oz/ton Au over 3 meter sample intervals. This hole is plotted within the pyrite zone. (see figure 4).

Drill hole 91-SW-02, drilled 200 meters west of the published resource and 720 meters southwest of 91-SW-01 encountered 67 meters of overburden before coring intrusive. The intrusive is granitic in composition in the upper portion where it contains greater than 25% quartz and generally only a trace of sulphides. In the lower portion of the hole a more fine grained, salt and pepper textured, intrusive is categorized as hybrid. The best mineralization encountered in this hole was 0.17% Cu and <0.001 oz/ton Au in the top 6 meters and 0.06% Cu and <0.001 oz/ton Au in the last 2.5 meters.

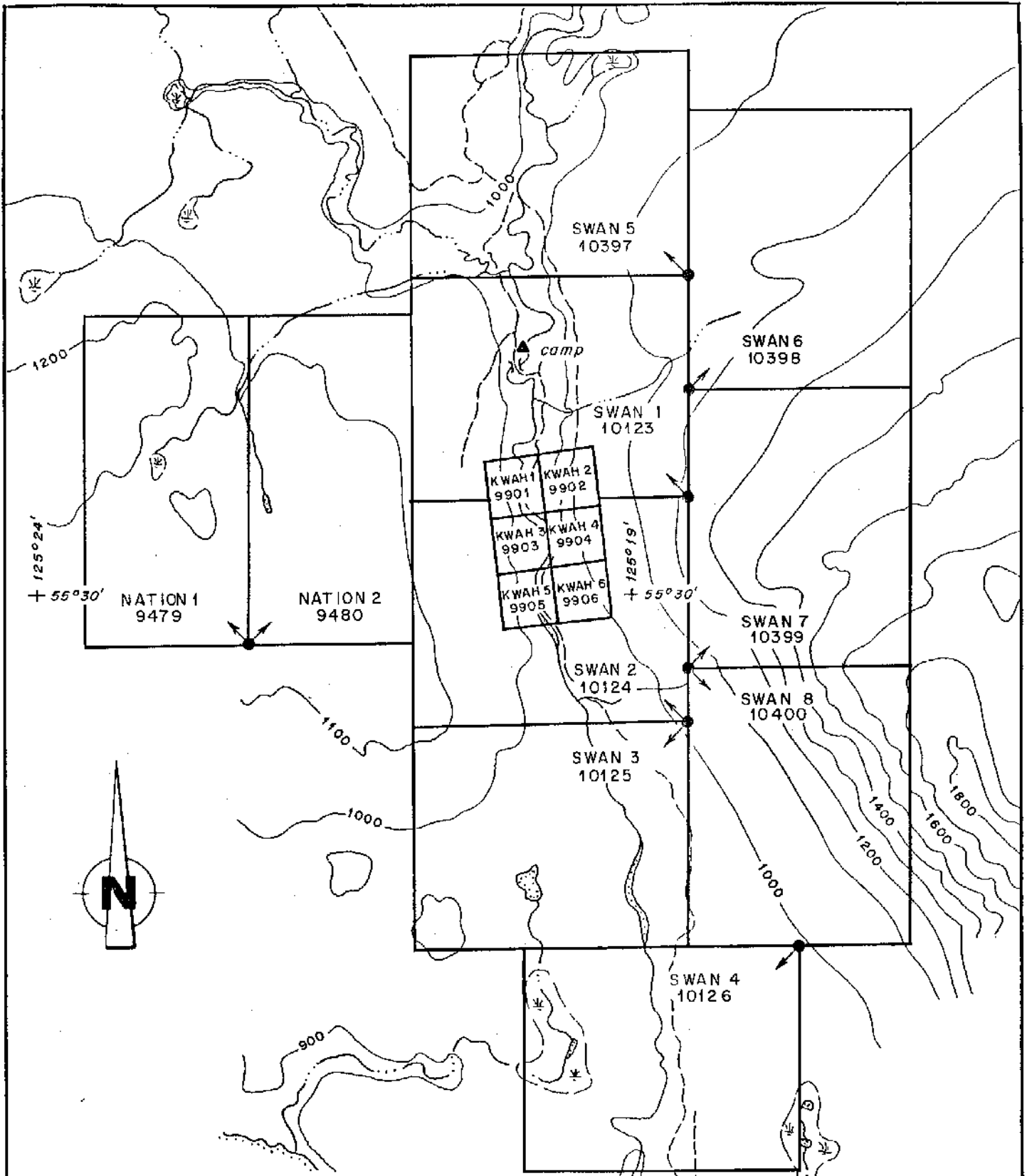
Drill hole 91-SW-03, drilled 450 meters west of 91-SW-02, encountered 96 meters of argillaceous volcanic wacke and then a silicified potassium feldspar rich quartz feldspar porphyry. Hole 91-SW-03 was almost completely devoid of sulphides and returned no significant results.

Hole 91-SW-04 was drilled 400 meters west of 91-SW-03. It encountered 26 meters of quartz-mariposite rock believed to have been derived from an ultramafic and then non-silicified serpentinite. No significant gold or copper values were obtained although visible cinnabar was observed in the quartz-mariposite material. *The core is stored at the campsite.*

Location, Access and Physiography

The Swan claims occupy the valley of Kwanika Creek which is a tributary of the Nation River system. Topography on the claims varies between 915 meters (3,000 feet) and 1,710 meters (5,600

*Sutherland Brown, A., et al (1975); Porphyry Deposits of the Canadian Cordillera, Special Volume 15. The Canadian Institute of Mining and Metallurgy, Table I #97.




EASTFIELD / NORTHAIR
SWAN, KWAH & NATION CLAIMS
 OMINECA M.D., B.C.

LOCATION MAP



SCALE 1:50,000

 MINCORD EXPLORATION CONSULTANTS LIMITED	<i>Date</i> Sept./91	<i>N.T.S.</i> 93 N/6,11
	<i>Scale</i> 1:50,000	<i>Figure</i>
	<i>By</i>	1

feet). Most of the Swan property is tree covered with open pine stands occupying the valley bottom and spruce forests the side hills. Most of the claim area is covered by extensive deposits of glacial till which are in places in excess of 70 metres thick.

Access to the claims is by two wheel drive vehicle either coming from Fort St. James, BC via Manson Creek or via The Leo Creek-Driftwood Forest access road. Travel time to the property from Fort St. James via the Leo-Driftwood road is approximately 3.5 hours.

Claim Status

<u>Claim</u>	<u>Units</u>	<u>Record No.</u>	<u>Record Date</u>
Kwah 1	1	9901	Oct 19/88
Kwah 2	1	9902	Oct 19/88
Kwah 3	1	9903	Oct 19/88
Kwah 4	1	9904	Oct 19/88
Kwah 5	1	9905	Oct 19/88
Kwah 6	1	9906	Oct 19/88
Swan 1	20	10123	Feb 16/89
Swan 2	20	10124	Feb 15/89
Swan 3	20	10125	Feb 13/89
Swan 4	20	10126	Feb 14/89
Swan 5	20	10397	May 6/89
Swan 6	20	10398	May 6/89
Swan 7	20	10399	May 4/89
Swan 8	20	10400	May 4/89
Nation 1	18	9479	June 22/88
Nation 2	18	9480	June 22/88

Total Claims: 16

Total Units: 202

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 Creek. The area was first mapped in 1941 and 1943 by J.W. 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 meters). 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,

geological, geochemical, magnetometer and I.P. surveys and trenching. Eleven AX diamond drill holes totalling 2,807 feet (855 meters) were completed before Canex terminated its option. In 1969 the property was optioned by Great Plains Development Company of Canada, Ltd. (now Norcen Energy Resources Ltd.). Their exploration program included a magnetometer survey and seven BQ diamond drill holes totalling 4,328 feet (1,319 meters). The result of the Canex and Great Plains work was the geological definition of a low grade copper deposit within an area of 1,600 feet (488 meters) by 1,000 feet (305 meters).

In 1972, Bow River Resources, formerly Hogan Mines Ltd., drilled six percussion holes for a total of 1,800 feet (548 meters). 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 kilometers) of grid, a ground magnetometer and I.P. survey, and 30 percussion drill holes totalling 9,820 feet (2,993 meters) before terminating their option. Subsequently Bow River Resources abandoned the claims.

Interest in the area was rekindled by W. Halleran who staked the Kwah claims in 1988 and demonstrated a copper-gold affinity in the mineralization. The Swan 1-8 claims were subsequently staked by Eastfield Resources Ltd.

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. A linear trending band of 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, volcanoclastic/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 1,500 meters wide. It separates the older Paleozoic rocks from younger Mesozoic rocks but cannot be directly observed as its surface trace is covered by glacial drift. The proximity of the Pinchi Fault to Kwanika Creek is evidenced by the presence of fractures, shears and faults in outcrops along the creek. It is speculated that this fault may have had significance in preparing adjacent terranes for ascending mineralizing hydrothermal systems.

Property Geology

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.

Units occurring are as follows:

<u>Garnett (1978)</u>	<u>Mincord Exploration Consultants Ltd. (1989)</u>
Quartz Monzonite/Granite	Granite/Granodiorite
Hybrid Quartz Monzonite	Hybrid Quartz Monzonite
Hybrid Quartz Monzonite	Quartz Syenite
Monzonite/Quartz Bearing Monzonite	Monzonite
Monzonite	Quartz Diorite

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.

GRANITE/GRANODIORITE

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. 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 one instance was epidote observed in this unit occurring as 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.

HYBRID QUARTZ MONZONITE (HQM) AND QUARTZ SYENITE

The H.Q.M. is Lower Jurassic in age and outcrops in two zones on Kwanika Creek. 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 a Quartz Syenite unit, composed of Syenites and Quartz Syenites occurs. It is 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 cinnabar). 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 channelled hydrothermal fluids as evidenced by the intense chlorite alteration associated with it.

MONZONITE AND QUARTZ DIORITE

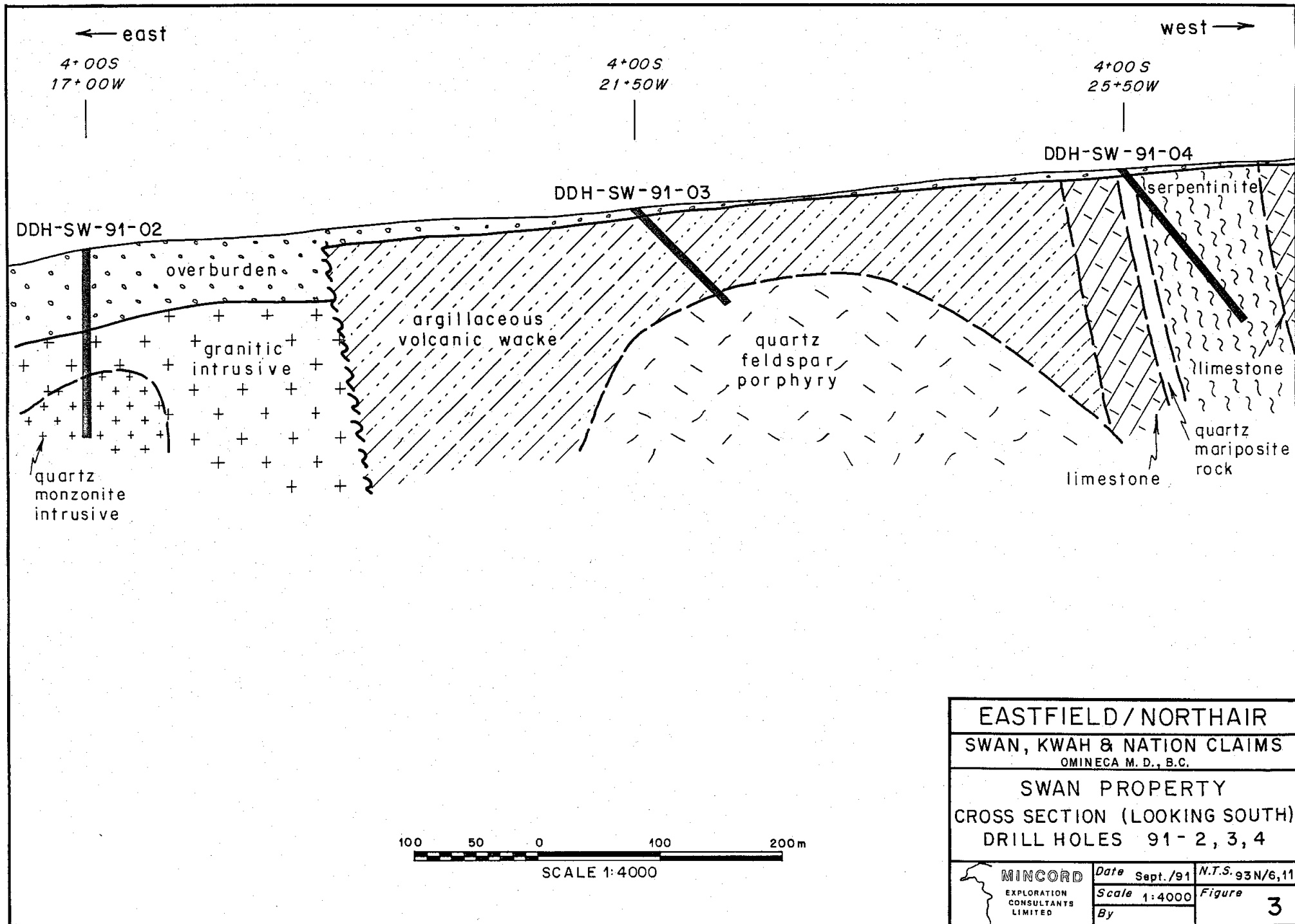
The Monzonite unit is also Lower Jurassic in age occurring north of camp on the east bank of Kwanika Creek, south of camp on a small tributary to the east of Kwanika Creek. It is a fine to medium grained leucocratic intrusive which may contain up to 50% mafic minerals, usually less than 30%. The mafic 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 rimming 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.

TAKLA SEDIMENTS/VOLCANICLASTICS

In the central portion of the claims, outcrops of Upper Triassic Takla Group metasediments occur. 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 clasts suggesting it is a mass flow. 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.



Two small outcrops of argillite also occur in this package. They are intimately associated with the Granite/Granodiorite unit and are fractured with randomly oriented carbonate veinlets resealing fractures. These argillites strike at 304 degrees and dip to the east at 84 degrees which is parallel to the contact with the intruding Granite/Granodiorite unit.

CRETACEOUS CONGLOMERATE

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.

CACHE CREEK ROCKS

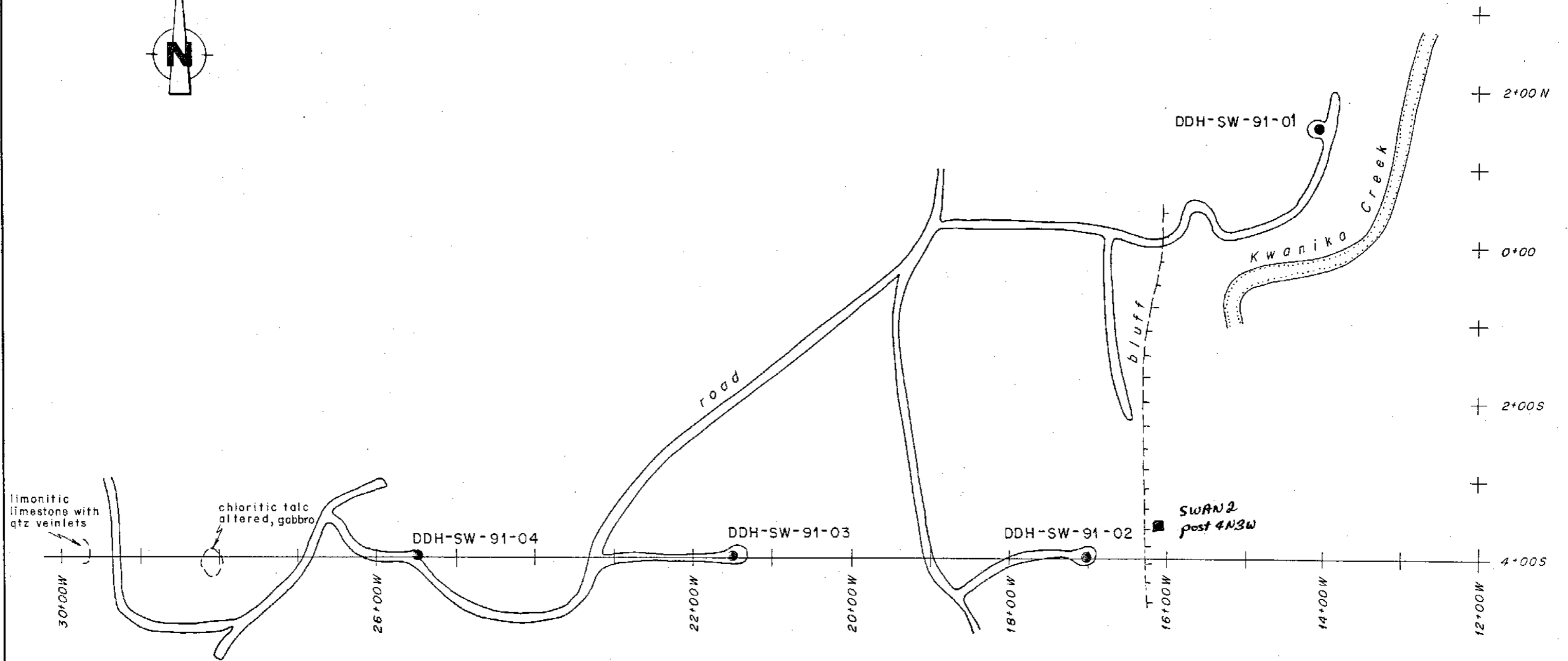
Cache Creek age blue grey limestone was encountered near an old prospect trench occurring at 33+00S 12+50W. Silicified ultramafic was observed immediately west of this limestone. It is thought that the old trench was once part of the Bowleg Group explored for its mercury potential by the Consolidated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

Conclusions and Recommendations

The 1991 drill program failed to identify new zones of significant mineralization. Holes DDH-91-SW-01 and DDH-91-SW-02 do however provide additional data that has enabled a distribution of the central chalcopyrite-pyrite and peripheral pyrite zone to be plotted for the Northern Creek Zone. (see figure 4).

The chalcopyrite-pyrite zone in this area has a dimension of approximately 600 meters square and is open to the east and southwest. Its grades approximately 0.15% Cu with unknown gold credits. The chalcopyrite-pyrite zone is surrounded by a pyrite zone typically 100 to 300 meters in thickness and attenuated in a northern direction. The pyrite zone has only sporadic copper values despite being well altered and containing 2 to 5% total sulphides.

It is recommended that future work be directed at establishing the gold content of the chalcopyrite-pyrite zone and testing for additional extensions of this zone to the east and southwest.



limonitic limestone with qtz veinlets

chloritic talc altered, gabbro

bluff

Kwaniko Creek

DDH-SW-91-01

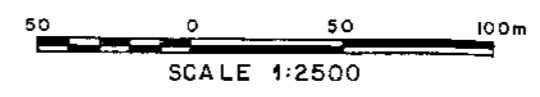
DDH-SW-91-04

DDH-SW-91-03

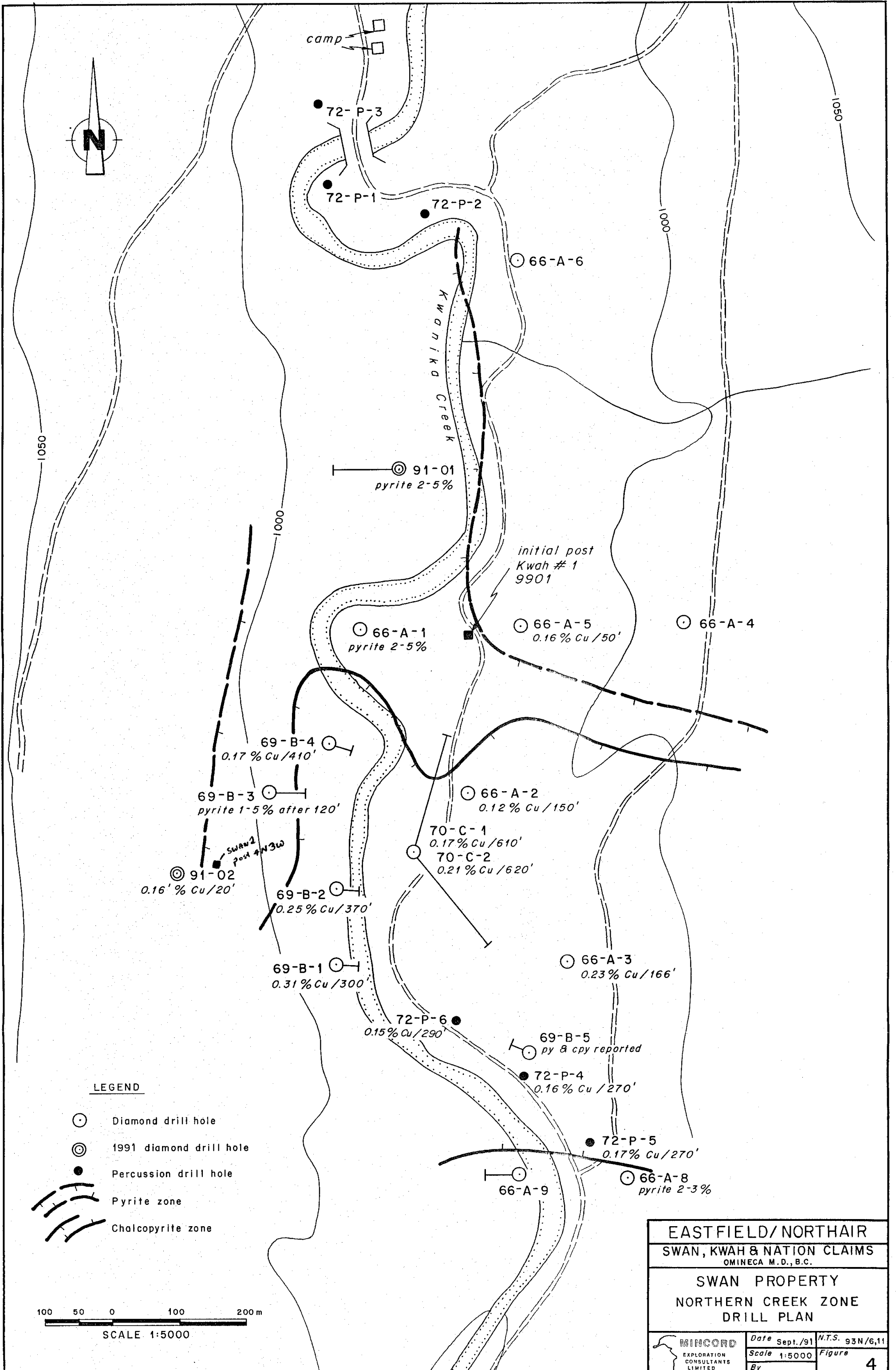
DDH-SW-91-02

SWAN2 post 4N3W

gabbro

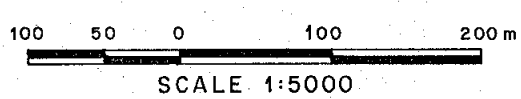


EASTFIELD/NORTHAIR		
SWAN, KWAH & NATION CLAIMS OMINECA M.D., B.C.		
SWAN PROPERTY		
1991 DIAMOND DRILL LOCATIONS & DRILL ACCESS ROADS		
	Date	Sept./91
	Scale	1:2500
	By	
		N.T.S. 93N/6,11
		Figure 2



LEGEND

- Diamond drill hole
- ⊙ 1991 diamond drill hole
- Percussion drill hole
- ▬▬▬ Pyrite zone
- ▬▬▬ Chalcopyrite zone



EASTFIELD/NORTHAIR
SWAN, KWAH & NATION CLAIMS
 OMINECA M.D., B.C.
SWAN PROPERTY
NORTHERN CREEK ZONE
DRILL PLAN

MINCORD EXPLORATION CONSULTANTS LIMITED	Date	Sept./91	N.T.S. 93N/6,11
	Scale	1:5000	Figure
	By		4

APPENDIX 1
COST STATEMENT

Costs

Professional Fees:

G.L. Garratt	3 days @ \$350/day	\$ 1,050.00
J.W. Morton	27 days @ \$350/day	9,450.00
A. Buskas	3 days @ \$325/day	975.00

Field Personnel Fees:

E. MacKenzie	19 days @ \$225/day	4,275.00
R. Muench	23 days @ \$225/day	5,175.00
R. Vedd	15 days @ \$200/day	3,000.00
N. Coopey	1 day @ \$210/day	210.00
T. Richards	2 days @ \$200/day	400.00

Rentals:

ATV	24 days @ \$50/day	1,200.00
Camp	43 days @ \$200/day	8,600.00
Generator	June 27 - August 26	1,609.73
Vehicle	July 2 - August 16	2,370.09

Transportation:

Helicopter	4.7 hrs @ \$644.51/hr	3,029.22
Scheduled Flights		857.51
Fixed Wing-Charter		1,268.22

Demobilization of Camp:

2,000.00

Travel Expenses:

383.56

Fuel:

1,205.54

Field Equipment:

1,801.42

Analyses:

156 samples @ \$22.31/samp. 3,480.00

Sub Contractor:

Drilling	52,251.39
Expediting	192.00

Communication:

2 Handhelds	17 days @ \$5/day each	170.00
Base Radio	24 days @ \$7.92/day	190.00
Telephone		602.41
Courier		602.63

Freight:

554.16

Food:

3,996.62

Total

\$110,899.50

APPENDIX 2
STATEMENT OF QUALIFICATIONS

Statement of Qualifications

I, James William Morton of 771 Morgan Road, North Vancouver, BC, do hereby certify the following:

1. I am a registered Professional Geoscientist of the Province of British Columbia (registration No. 18303).
2. I am employed by Mincord Exploration Consultants Ltd. of suite 110 - 325 Howe Street, Vancouver, BC.
3. I graduated from Carleton University, Ottawa, ON in 1971 with a Bachelor of Science in Geology.
4. I graduated from the University of British Columbia, Vancouver, BC in 1976 with a Master of Science in Soil Science.
5. I am a fellow of the Geological Association of Canada.
6. I supervised the work described in this report.

J. W. Morton

J. W. Morton, P. Geo.



Dated at Vancouver, British Columbia this 30th day of August, 1991.

APPENDIX 3
REFERENCES

References

- Bailey, D.G., 1991 - Qualifying Report on the Swan Property for Candela Resources.
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APPENDIX 4
DIAMOND DRILL LOGS



DRILL HOLE RECORD

Inclination		Bearing		PROPERTY	Length	Hole No.	
Collar	-45°	270°	SWAN	139.4 m	DDH-SW-91-01		
				Location	Hor. Comp.	Sheet 1 of 3	
				Elevation	Vert. Comp.	Logged by Bill McTear	
				Coordinates	Bearing	Sampled by Erik Mackenzie	
				1450N 14400W	270°		
					Began	Completed	
					July 18/91	July 20/91	
					Core Size	Recovery	
					NQ	%	

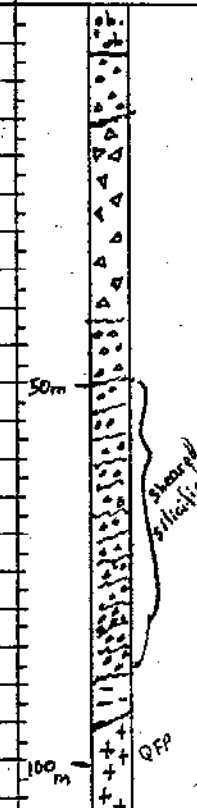
FOOTAGE	RECOV.	DESCRIPTION	MINERALIZATION	GRAPHIC LOG	SAMPLES				Recovery %	ASSAYS	
					No.	From m	To m	Length m		Cu %	Ag %
0	6.3	Casing									
6.3	8.4	Broken Salmon pink probable Kspar rich intrusive (Syenodiorite), 20% matrix, locally altered to chlorite or chloritoid like material, moderate secondary silicification, 5-10% sulfides predominantly py with minor cpy, minor epidote	py (cpy)		100	6.3	8.4	2.1	60	.01	<.001
					101	8.4	11.4	3	50	.02	<.001
					102	11.4	14.4	3	50	.06	<.001
					103	14.4	17.2	2.8	95	.01	<.001
					104	17.2	19.5	2.3	90	.03	<.001
					105	19.5	21.5	2.0	60	.02	<.001
					106	21.5	25.7	4.2	60	.08	<.001
8.4	12.5	Equigranular syenodiorite, >60% Kspar some possibly secondary, matrix total approximately 10% including 3 to 4% epidote, moderate secondary silicification, 2 to 3% sulfides py/cpy as disseminations + fracture filling.	py/cpy		107	25.7	28.5	2.8	70	.05	<.001
					108	28.5	31.5	3	50	.06	<.001
					109	31.5	33.5	2	70	.02	<.001
					110	33.5	36.5	3	70	.01	<.001
					111	36.5	39.5	3	90	.02	<.001
					112	39.5	42.5	3	90	.02	<.001
					113	42.5	44.5	2	70	.01	<.001
					114	44.5	46.5	2	60	.01	<.001
					115	46.5	49.5	3	90	.03	<.001
					116	49.5	52.5	3	70	.01	<.001
					117	52.5	55.5	3	70	.01	<.001
					118	55.5	57.5	2	70	.01	<.001
					119	57.5	60.5	3	90	.01	<.001
					120	60.5	63.5	3	70	.01	<.001
					121	63.5	66.5	3	90	.01	<.001
					122	66.5	69.5	3	60	.01	<.001
					123	69.5	72.5	3	90	.01	<.001
					124	72.5	75.5	3	90	.01	<.001
					125	75.5	78.5	3	90	.01	<.001
					126	78.5	81.5	3	90	.01	<.001
					127	81.5	84.5	3	70	.03	<.001
					128	84.5	87.5	3	90	.01	<.001
					129	87.5	90.2	3	70	.01	<.001
					130	90.2	93.2	3	80	.01	<.001
					131	93.2	96.2	3	70	.01	<.001
					132	96.2	99.2	3	90	.01	<.001
					133	99.2	102.2	3	90	.01	<.001
					134	102.2	105.2	3	90	.01	<.001
					135	105.2	108.2	3	70	.03	<.001
					136	108.2	111.2	3	70	.01	<.001
					137	111.2	114.2	3	70	.03	<.001
					138	114.2	117.2	3	70	.02	<.001
					139	117.2	120.2	3	90	.11	<.001
					140	120.2	123.2	3	70	.06	.003
					141	123.2	126.2	3	90	.02	<.001
					142	126.2	129.2	3	70	.09	.002
					143	129.2	132.2	3	70	.02	<.001
					144	132.2	135.2	3	70	.02	<.001
					145	135.2	139.4	3.2	80	.01	<.001



DRILL HOLE RECORD

Inclination	Bearing	PROPERTY	SWAN	Length	10601177	Hole No.	DDH-SW-71-03
Collar	-50°	270°	Location	West Side	Hor. Comp.	Vert. Comp.	Sheet 1 of 2
			Elevation		Bearing	270°	Logged by
			Coordinates	4+005 21+500	Began	July 23/91	Completed
					Core Size	NQ	Recovery %
							Sampled by
							Eric McKenzie Rene Vedd.

FOOTAGE	RECOV.	DESCRIPTION	MINERALIZATION	GRAPHIC LOG	SAMPLES				ASSAYS			
					No.	From	To	Length	Rec %	Cu %	Ag g/t	
0	6	Casing, overburden			174	3	6	9	3	60	.02	<.001
6	14	Black to greenish black rock, fine grained clastic rock, clasts are discernible with hand lens and are 0.5 to 1.0 mm. Some exotic larger clasts to 1 cm, minor porphyro, somewhat chaotic, rough bedding 45° to core axis, somewhat siltified, quartz veinlets intermittent at several orientations (parallel to 10° and 45° to core axis), some clasts with quartz and the occasional clast appears to be sulfide.			175	9	12	7	7	80	.01	<.001
					176	12	15	7	7	30	<.01	<.001
					177	15	18	3	3	50	<.01	<.001
					178	16	21	3	3	40	<.01	<.001
					179	21	24	3	3	70	<.01	<.001
					180	24	27	3	3	50	<.01	<.001
					181	27	30	3	3	60	<.01	<.001
					182	33	33	3	3	60	<.01	<.001
					183	33	36	3	3	70	<.01	<.001
					184	36	39	3	3	80	<.01	<.001
14	15	Shear zone			185	39	42	3	3	80	<.01	<.001
					186	42	45	3	3	70	<.01	<.001
15	41	Coarser relatively unsilicified volcanic wacke, clasts 0.5 to 1.0 mm, friable, evidence of incipient shearing 210° to CA, exotic dark black clasts to 2 cm (subrounded), some black material possibly associated with Qtz veins, matrix altered to greenish serpentinized? silticized? material, occasional sulfide clasts 1 cm.			187	45	48	3	3	90	<.01	<.001
					188	48	51	3	3	60	<.01	<.001
					189	51	54	3	3	40	.01	<.001
					190	54	57	3	3	10	<.01	<.001
					191	57	60	3	3	20	.01	<.001
					192	60	63	3	3	70	<.01	<.001
					193	63	66	3	3	40	.01	<.001
					194	66	69	3	3	20	.01	<.001
41	43	finer grained variety of wacke, pervasive shearing and silicified, soft black clasts, hard black clasts, cream colored clasts, rock generally competent but not obviously silicified.			195	69	81.7	12.7	12.7	10	.01	<.001
					196	81.7	84.7	3	3	70	.01	<.001
					197	84.7	87.7	3	3	70	.01	<.001
					198	87.7	90.7	3	3	90	.01	<.001
					199	90.7	92.4	2.1	2.1	80	.01	<.001
43	49	as above slight more shearing - silicification.			200	92.4	94.7	2.1	2.1	80	.01	<.001
					201	94.9	95.9	1	1	70	.01	<.001
49	81.7	Major shear zone, rock pervasively silicified brecciated and very dark, almost as if carbonaceous (perhaps hornfelsed), some carbonate, much harder after 5.3 m.			202	95.9	98.0	2.1	2.1	40	.01	<.001
					203	98	100	2.0	2.0	90	.01	<.001
					204	100	102	2.0	2.0	90	.01	<.001
					205	102	104	2.0	2.0	70	.01	<.001
					206	104	106.1	2.1	2.1	60	.01	<.001
81.7	94.9	Arg. Masses wacke, dark bedding at 60° and 30° to core axis, carbonate veinlets present, occasional section with 25% quartz shreds which are both angular and rounded and generally less than 0.5 cm in diameter.										
94.9	95.9	Contact alteration zone, rock gray and soft fine amount of quartz, microporphyritic spots.										



Probably mislatch
very poor recov



DRILL HOLE RECORD

Inclination	Bearing	PROPERTY SWAN	Length	151.2 m	Hole No.	DDH-SW-91-04
Collar	-50°	270°	Location	West Side	Sheet	1 of 2
			Elevation		Logged by	J.W. Morton
			Coordinates	4+00S 25+50W	Sampled by	Ron Veale
			Core Size	NQ	Recovery	%

FOOTAGE m	RECOV. m	DESCRIPTION	MINERALIZATION	GRAPHIC LOG	SAMPLES				ASSAYS		
					No.	From	To	Length	Recy %	Cu %	As of T
0	6.1	casing, overburden.									
6.1	10	quartz microposite rock, several generations of quartz the most prevalent, being a green variety, saturated with multitudes of quartz inclusions, some obvious inclusions, trace sulfides			207	6.1	8.0	1.9	90	.01	<.001
					208	8.0	10.0	2	80	<.01	<.001
					209	10.0	12.0	2	90	<.01	<.001
					210	12.0	14.0	2	60	<.01	<.001
					211	14.0	16.0	2	60	<.01	<.001
					212	16.0	18.0	2	30	<.01	<.001
10	10.5	as above only darker and sooty, numerous quartz healed brecciated sections, some microposite trace sulfides.			213	18.0	20.0	2	25		
					214	20.0	23.0	3	20		
					215	23.0	26.5	3.5	20	<.01	<.001
10.5	26.5	quartz flooded rock, several generations of quartz some cryptocrystalline, some microposite.			216	26.5	29.5	3	90		
					217	29.5	32.5	3	90		
					218	32.5	35.5	3	90	<.01	<.001
					219	35.5	38.5	3	90	<.01	<.001
26.5	151.2	Sheared broken unsilicified serpentinite, strongly magnetic, strongly foliated throughout.			220	38.5	40.5	2	90	<.01	<.001
					221	40.5	43.5	3	90	<.01	<.001
					222	43.5	46.5	3	90	<.01	<.001
					223	46.5	49.5	3	90	<.01	<.001
					224	49.5	52.5	3	90	<.01	<.001
					225	52.5	55.5	3	90	<.01	<.001
					226	55.5	58.5	3	90	<.01	<.001
					227	58.5	61.5	3	70	<.01	<.001
					228	61.5	64.5	3	70	<.01	<.001
					229	64.5	67.5	3	95	<.01	<.001
					230	67.5	70.5	3	95	<.01	<.001
					231	70.5	73.5	3	95	<.01	<.001
					232	73.5	78.5	5	10	<.01	<.001
					233	76.5	81.3	4.8	20	<.01	<.001
					234	81.3	84.3	3	50	<.01	<.001
					235	84.3	87.3	3	95	<.01	<.001
					236	87.3	91.3	4	45	<.01	<.001
					237	90.3	93.1	2.8	90	<.01	<.001
					238	93.1	93.6	0.5	90		
					239	93.6	96.6	3	90	<.01	<.001
					240	96.6	99.6	3	60	<.01	<.001
					241	99.6	102.6	3	70	<.01	<.001
					242	102.6	105.6	3	90	<.01	<.001
					243	105.6	108.6	3	90	<.01	<.001
					244	108.6	111.6	3	90	<.01	<.001
					245	111.6	114.6	3	90	<.01	<.001
					246	114.6	117.6	3	90	<.01	<.001
					247	117.6	120.6	3	90	<.01	<.001
					248	120.6	123.6	3	90	<.01	<.001
					249	123.6	126.6	3	90	<.01	<.001
					250	126.6	129.6	3	90	<.01	<.001
					251	129.6	132.6	3	90	<.01	<.001

@ 59.5m shear at 30° to CA. 60.5 to 63.1 recovery 67%
 63.1 to 66.5 " 94%
 66.5 to 69.5 " 97%
 @ 70.4m shear at 15° to CA 69.5 to 72.2 " 97%
 72.5 to 75.3 " 94%
 75.3 to 78.3 " 8% (unstable)
 @ 78.6m shear at 10° to CA
 @ 84.1m shear at 10° to 40° to CA 78.3 to 81.4 recn 39%
 @ 87.3 shear at 30° to CA 81.4 to 84.5 " 49%
 84.5 to 87.5 " 95%
 @ 87.3 Fibrous crystals 87.5 to 90.5 " 97%
 plus emerald green bligs associated
 with magnetite 90.5 to 93.6 " 90%
 93.6 to 96.6 " 83%
 @ 90.2 shears at 5° and 35° to CA. 96.6 to 99.7 " 55%
 99.7 to 102.7 " 73%
 @ 93.1 to 93.6 Kspar clasts 102.7 to 105.8 " 94%
 pinkish to white, 30% by volume, very
 weakly saussuritized, may be sericite fracture
 filled by qtz (1 spin → alb. → saussuritized)
 @ 114.7m shear 30° and 60° to CA
 @ 114.6m shear 25° and 40° to CA.
 114.9 - 151.2 core is mush, with
 smaller 20cm to 1m congl. bedded sections.
 @ 138.8 Foliations and shear 47° to CA
 and 91° to CA.

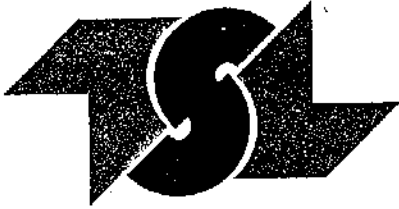


DRILL HOLE RECORD

Inclination	Bearing	PROPERTY	Length	Hole No.
Collar		Location	Hor. Comp.	Sheet
		Elevation	Vert. Comp.	Logged by
		Coordinates	Began	Completed
			Core Size	Recovery

FOOTAGE	RECOV.	DESCRIPTION	MINERALIZATION	GRAPHIC LOG	SAMPLES				ASSAYS		
					No.	From	To	Length	Rec.	Cu %	Au g/t
		@ 142m string, by belated 0°-30° to core axis			252	132.6	135.6	3	90	2.01	2.001
		@ 150.4-150.5 Texture like rounded sand grains.			253	135.6	138.6	3	90	2.01	2.001
					244	128.6	141.6	3	90	2.01	2.001
					255	141.6	144.6	3	90	2.01	2.001
					256	144.6	147.6	3	90	2.01	2.001
					257	147.6	151.2	3.6	70	2.01	2.001

APPENDIX 5
ASSAY CERTIFICATES



TSL LABORATORIES

DIV. BURGNER TECHNICAL ENTERPRISES LIMITED

2 - 302 - 48th STREET, EAST
SASKATOON, SASKATCHEWAN
S7K 6A4

(306) 931-1033 FAX: (306) 242-4717

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Prime Exploration Ltd.
10th Floor-Box 10
808 West Hastings Street
Vancouver, B.C. V6C 2X6

REPORT No.
S2845

SAMPLE(S) OF Drill Core

INVOICE #: 17738
P.O.: R3328

Morton
Project: CDDSW

REMARKS: Mincord Exploration Consultants Ltd. Samples 140-164 Not Rec'd

	Au ozt	Ag ozt	Cu %
100	<0.001	<0.05	.01
101	<0.001	<0.05	.02
102	<0.001	<0.05	.06
103	<0.001	<0.05	.01
104	<0.001/<0.001	<0.05	.03
105	<0.001	<0.05	.02
106	<0.001	<0.05	.08
107	<0.001	<0.05	.05
108	<0.001	<0.05	.06
109	<0.001/<0.001	<0.05	.02
110	<0.001	<0.05	.01
111	<0.001	<0.05	.02
112	<0.001	<0.05	.02
113	<0.001	<0.05	.01
114	<0.001/<0.001	<0.05	.01
115	<0.001	.05	.03
116	<0.001	<0.05	.01
117	<0.001	<0.05	.01
118	<0.001	<0.05	.01
119	<0.001	<0.05	.01

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Bernie Duman

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808 West Hastings Street
Vancouver, B.C. V6C 2X6

REPORT No.
S2845

SAMPLE(S) OF Drill Core

INVOICE #: 17738
P.O.: R3328

Morton
Project: CDDSW

	Au ozt	Ag ozt	Cu %
120	<0.001	<0.05	.01
121	<0.001	<0.05	.01
122	<0.001	<0.05	<0.01
123	<0.001	<0.05	<0.01
124	<0.001/<0.001	<0.05	.01
125	<0.001	<0.05	.01
126	<0.001	<0.05	.01
127	<0.001	<0.05	.03
128	<0.001	<0.05	.01
129	<0.001	<0.05	.01
130	<0.001	<0.05	.01
131	<0.001	<0.05	.01
132	<0.001	<0.05	.01
133	<0.001	<0.05	.01
134	<0.001/<0.001	<0.05	.01
135	<0.001	<0.05	.03
136	<0.001	<0.05	.01
137	<0.001	<0.05	.03
138	<0.001	<0.05	.02
139	<0.001/<0.001	.08	.11

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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Prime Exploration Ltd.
10th Floor-Box 10
808 West Hastings Street
Vancouver, B.C. V6C 2X6

REPORT No.

S2881

SAMPLE(S) OF Drill Core

INVOICE #: 17773

P.O.: R3344

G. Morton
Project: CDDSW

REMARKS: Mincord Exploration Consultants Ltd.

	Au ozt	Ag ozt	Zn %	Cu %
140	.003		.03	.06
141	.001		.03	.02
142	.002		.02	.03
143	<0.001		.02	.02
144	<0.001/<0.001	<0.05	.19	.02
145	<0.001		.06	.01
146	<0.001		<0.01	.18
147	.001		<0.01	.15
148	.001		<0.01	<0.01
149	<0.001/<0.001	<0.05	<0.01	<0.01
150	<0.001		<0.01	.01
151	<0.001		<0.01	.02
152	<0.001		<0.01	.01
153	<0.001		<0.01	.01
154	<0.001/<0.001	<0.05	.01	.07
155	<0.001		.01	.03
156	<0.001		<0.01	.02
157	<0.001		<0.01	.01
158	<0.001		.01	<0.01
159	<0.001	<0.05	<0.01	<0.01

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REPORT No.
S2881

SAMPLE(S) OF Drill Core

INVOICE #: 17773
P.O.: R3344

G. Morton
Project: CDDSW

REMARKS: Mincord Exploration Consultants Ltd.

	Au ozt	Ag ozt	Zn %	Cu %
160	<0.001/<0.001		<0.01	.01
161	<0.001		.01	.02
162	<0.001		.01	.01
163	<0.001		.01	.01
164	<0.001	<0.05	.01	.01
165	<0.001		.01	.01
166	<0.001		.01	.01
167	<0.001		.01	.01
168	<0.001		.01	.01
169	<0.001	<0.05	.01	.01
170	<0.001/<0.001		.01	.01
171	<0.001		.01	.01
172	<0.001		.01	.01
173	<0.001		.01	.02
174	<0.001	<0.05	.01	.06
174-3	<0.001		.02	.02
175	<0.001		.02	.01
176	<0.001		.01	<0.01
177	<0.001		<0.01	<0.01
178	<0.001	<0.05	.01	<0.01

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REPORT No.
S2881

SAMPLE(S) OF Drill Core

INVOICE #: 17773
P.O.: R3344

G. Morton
Project: CDDSW

REMARKS: Mincord Exploration Consultants Ltd.

	Au ozt	Ag ozt	Zn %	Cu %
179	<0.001/<0.001		.01	<0.01
180	<0.001		.01	<0.01
181	<0.001		.01	<0.01
182	<0.001		.01	<0.01
183	<0.001	<0.05	<0.01	<0.01
184	<0.001/<0.001		.01	<0.01
185	<0.001		.01	<0.01
186	<0.001		<0.01	<0.01
187	<0.001		.01	<0.01
188	<0.001	<0.05	.01	<0.01
189	<0.001		.04	.01
190	<0.001		.01	<0.01
191	<0.001		.03	.01
192	<0.001		.01	<0.01
193	<0.001	<0.05	.01	.01
194	<0.001		.02	.01
195	<0.001		.01	.01
196	<0.001		.01	.01
197	<0.001		.02	.01
198	<0.001	<0.05	.01	.01

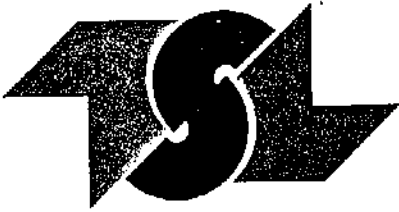
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S7K 6A4

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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Prime Exploration Ltd.
10th Floor-Box 10
808 West Hastings Street
Vancouver, B.C. V6C 2X6

REPORT No.
S2881

SAMPLE(S) OF Drill Core

INVOICE #: 17773
P.O.: R3344

G. Morton
Project: CDDSW

REMARKS: Mincord Exploration Consultants Ltd.

	Au ozt	Ag ozt	Zn %	Cu %
199	<0.001/<0.001		.04	.01
200	<0.001		.08	.01
201	<0.001		.01	.01
202	<0.001		.01	.01
203	<0.001	.05	.01	.01
204	<0.001		.01	.01
205	<0.001		.01	.01
206	<0.001		.01	.01
207	<0.001		<0.01	.01
208	<0.001	.05	<0.01	<0.01
209	<0.001		<0.01	<0.01
210	<0.001		<0.01	<0.01
211	<0.001		<0.01	<0.01
212	<0.001		<0.01	<0.01
213-217	<0.001	<0.05	.01	<0.01

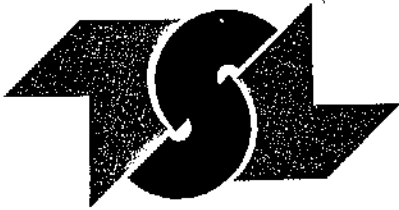
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TSL LABORATORIES

2 - 302 - 48th STREET, EAST
SASKATOON, SASKATCHEWAN
S7K 6A4

☎ (306) 931-1033 FAX: (306) 242-4717

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Prime Exploration Ltd.
10th Floor-Box 10
808 West Hastings Street
Vancouver, B.C. V6C 2X6

REPORT No.
S2952

SAMPLE(S) OF Drill Core

INVOICE #: 17859
P.O.: R3365

G. Morton
Project: CDDSW

REMARKS: Mincord Exploration Consultants

	Au ozt	Ag ozt	Zn %	Cu %
218	<0.001	.08	.01	<0.01
219	<0.001/<0.001	.08	<0.01	<0.01
220	<0.001	.06	<0.01	<0.01
221	<0.001	.07	<0.01	<0.01
222	<0.001	.07	<0.01	<0.01
223	<0.001	.07	<0.01	<0.01
224	<0.001/<0.001	.07	<0.01	<0.01
225	<0.001	.07	<0.01	<0.01
226	<0.001	.07	<0.01	<0.01
227	<0.001	.06	<0.01	<0.01
228	<0.001	.07	<0.01	<0.01
229	<0.001/<0.001	.07	<0.01	<0.01
230	<0.001	.07	<0.01	<0.01
231	<0.001	.07	<0.01	<0.01
232	<0.001	.08	<0.01	<0.01
233	<0.001	.07	<0.01	<0.01
234	<0.001	.07	<0.01	<0.01
235	<0.001	.09	<0.01	<0.01
236	<0.001	.07	<0.01	<0.01
237/238	<0.001	.10	<0.01	<0.01

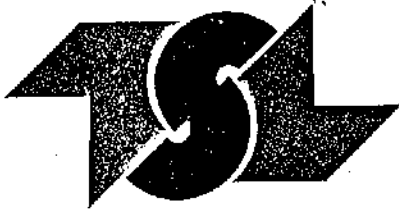
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P.O.: R3365

G. Morton
Project: CDDSW

REMARKS: Mincord Exploration Consultants

	Au ozt	Ag ozt	Zn %	Cu %
239	<0.001	.08	<0.01	<0.01
240	<0.001/<0.001	.11	<0.01	<0.01
241	<0.001	.08	<0.01	<0.01
242	<0.001	.08	<0.01	<0.01
243	<0.001	.07	<0.01	<0.01
244	<0.001	.07	<0.01	<0.01
245	<0.001	.07	<0.01	<0.01
246	<0.001	.08	<0.01	<0.01
247	<0.001	.07	<0.01	<0.01
248	<0.001	.07	<0.01	<0.01
249	<0.001	.07	<0.01	<0.01
250	<0.001	.07	<0.01	<0.01
251	<0.001	.06	<0.01	<0.01
252	<0.001	.07	<0.01	<0.01
253	<0.001	.07	<0.01	<0.01
254	<0.001	.07	<0.01	<0.01
255	<0.001	.08	<0.01	<0.01
256	<0.001	.07	<0.01	<0.01
257	<0.001	.07	<0.01	<0.01

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