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**VANCOUVER, B.C.**

DRILLING REPORT

SKINNER PROPERTY

Clinton Mining Division  
Latitude: 126°25'W  
Longitude: 51°40'N  
NTS: 92N 9

OWNER: Louis Bernoilles

OPERATOR: International Northair Mines Ltd.  
860 - 625 Howe St.  
Vancouver, B.C. V6C 2T6

REPORT BY: Dave Visagie, B.Sc.  
May 8, 1992

S92-420

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

22,342

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## 1.0 INTRODUCTION

The Skinner property is located within the west Chilcotin region of British Columbia, near the north end of Tatlayoko Lake. The property is underlain by Jurassic aged sediments that have been intruded by Jurassic Coast Plutonic Complex rocks locally consisting of quartz diorite. Prior to Northair acquiring the property only limited hand trenching had been completed on it. As part of its' 1991 exploration program six BQTK sized diamond drill holes totalling 249.9 metres in length were drilled on the Victoria Vein in a 4 day period commencing on October 4th. From the core a total of 44 samples were sent for analysis. The results show that while the Victoria Vein contains significant gold intersections its' size appears to be limited.

## 2.0 LOCATION AND ACCESS (Figure 1)

The Skinner property is located 8 km northwest of the north end of Tatlayoko Lake, approximately 250 km west of Williams Lake, British Columbia. It is centred at 51°40'N, 124°25'W occurring on NTS sheet 92N 9 within the Clinton Mining Division.

Access is by four wheel drive road from the Mt. Skinner access road.

## 3.0 PHYSIOGRAPHY, VEGETATION AND CLIMATE

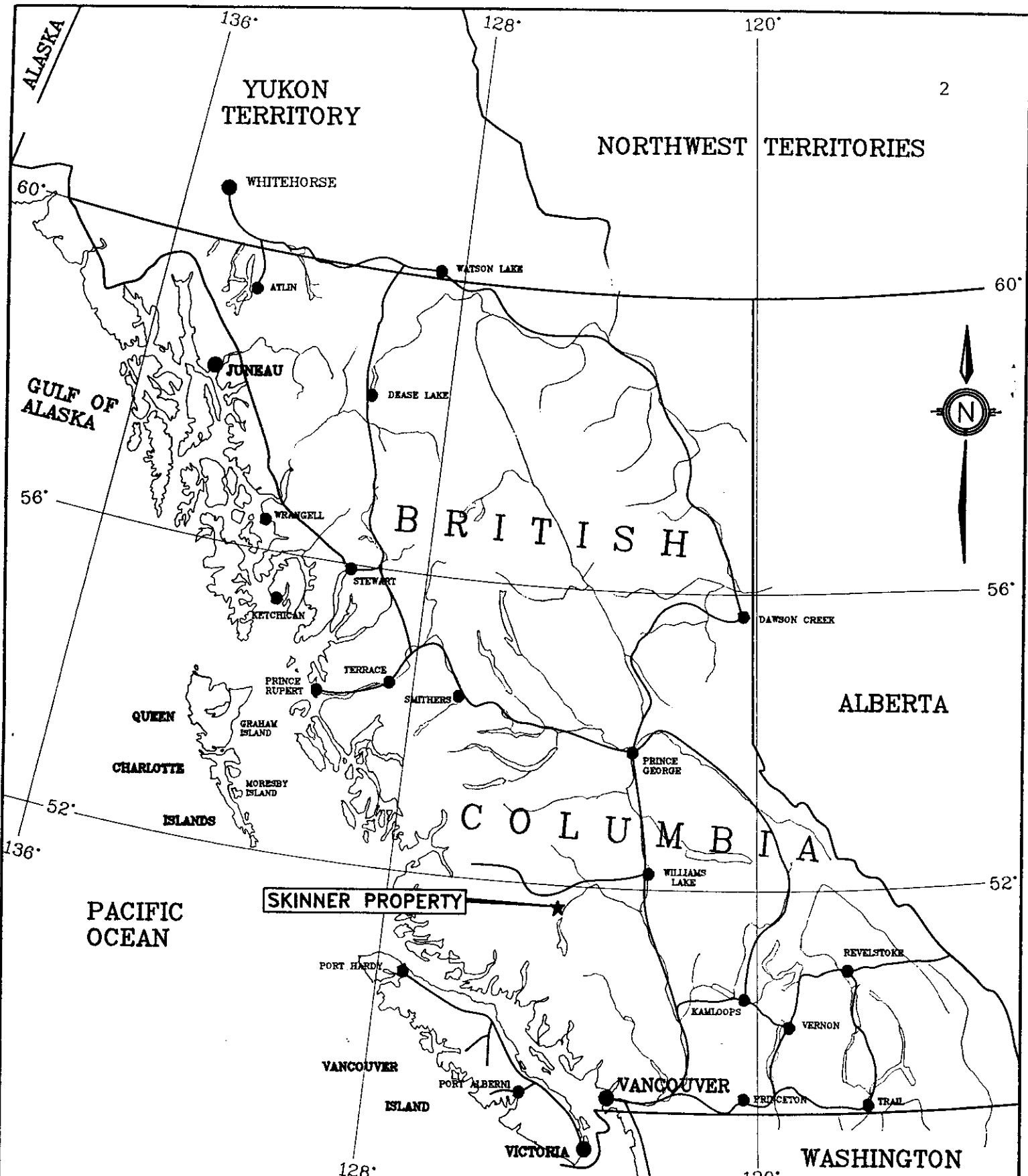
The topography of the claims is typical of the West Chilcotin area consisting of broad valleys and uplands. Local elevation on the property ranges from 850 to 1850 metres. The vegetation in general consists of jack pine and spruce trees with occasional open meadows and swamps.

The weather tends to be dry and cool in the winter while summers are generally warm and dry.

## 4.0 CLAIM STATUS (Figure 2)

The Skinner property consists of the following claims:

Claim	Record #	# Units	Expiry Date
Sk 1	3292	1	May 27, 2001
Sk 2	3324	1	June 20, 2001
Sk 3	3325	1	June 20, 2001
Sk 6	3375	1	July 15, 2001
Sk 7	3376	1	July 15, 2001
Sk 4	3397	1	July 9, 1993
Sk 5	3398	1	July 9, 1993



# NORTHWEST MINES

## SKINNER PROPERTY LOCATION MAP

DRAWN BY: T.K.  
DATE: DEC/1990

FIGURE NO: 1  
SCALE: 1:10,000

Skinner 1	3443	18	Oct. 6, 1992
Skinner 2	3444	20	Oct. 6, 1992
Skinner 3	3445	9	Oct. 14, 1992
Skinner 4	3446	12	Oct. 15, 1992
Skinner 5	3573	20	Feb. 6, 1993
Lincoln 1	209342	18	March 17, 1993
Lincoln 2	300143	18	Feb. 2, 1992
Lincoln 3	301535	18	June 30, 1992

The Sk 2-7 claims are staked as two post claims while the rest are staked under the modified grid system.

Presently the Sk 1, 2, 3, 6, 7, Skinner 1, Lincoln 1, 2 and 3 claims are grouped under Notice to Group form 3015136.

## 5.0 HISTORY AND PREVIOUS WORK

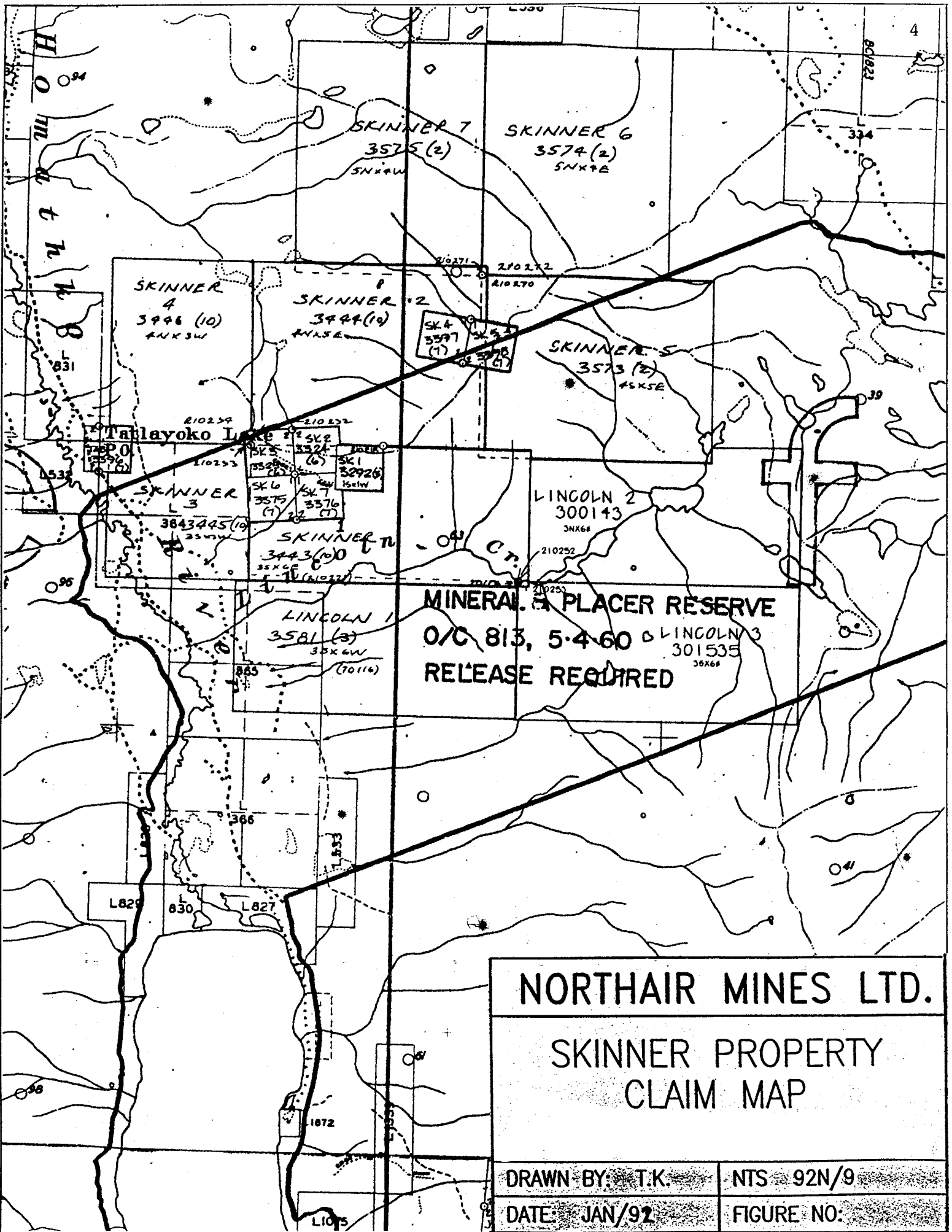
Prior to Northair acquiring the Skinner property only a limited amount of prospecting and hand trenching had been completed by the vendor primarily in the vicinity of the Victoria gold vein. Elsewhere within the immediate region limited exploration for both base and precious metals has been completed intermittently since the 1900's. Placer gold was located in the early 1900's on nearby Lingfeld Creek the source of which has not yet been located. In the spring of 1991 soil sampling, mapping, and geophysical surveying were completed on a grid basis over the Victoria Vein and its' extension. In addition limited backhoe trenching was completed on the vein.

## 6.0 REGIONAL GEOLOGY

The property is located on the southwest flank of Mt. Skinner in the northern part of the Chilcotin Ranges, an area of rugged, mountainous terrane. It is situated in the Cadwaller Terrane of the Coast Crystalline Belt between the northwest trending Yalokom and Tchaikazan Faults. The area is underlain by Early Cretaceous to Late Triassic sedimentary rocks that have been dissected by northwest trending splays from the major fault systems and intruded by Early Tertiary granodiorite and quartz diorite of the Coast Plutonic Complex.

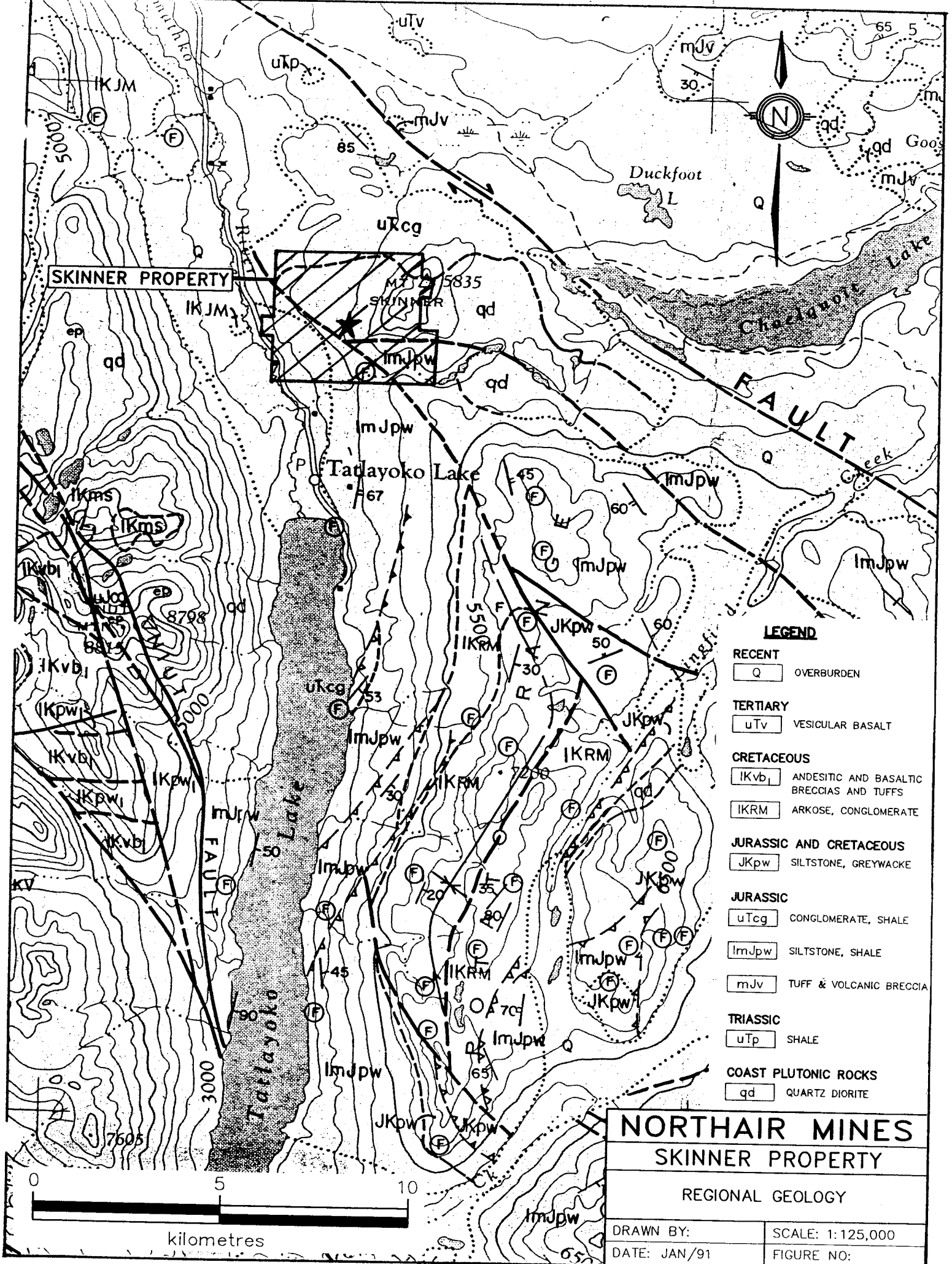
## 7.0 PROPERTY GEOLOGY

The Skinner mesothermal gold vein system is hosted by Early Tertiary quartz diorite. The veins are structurally controlled and occur immediately north of a major arcuate, west-northwest trending fault splay that is presumably part of the Yalkom Fault system.



**MINERAL & PLACER RESERVE**  
**O/C 813, 5-4-60**  
**RELEASE REQUIRED**

<b>NORTHAIR MINES LTD.</b>	
<b>SKINNER PROPERTY CLAIM MAP</b>	
<b>DRAWN BY: T.K.</b>	<b>NTS: 92N/9</b>
<b>DATE: JAN/92</b>	<b>FIGURE NO:</b>



**LEGEND**

- RECENT**  
Q OVERBURDEN
- TERTIARY**  
uTv VESICULAR BASALT
- CRETACEOUS**  
IKvb ANDESITIC AND BASALTIC BRECCIAS AND TUFFS  
IKRM ARKOSE, CONGLOMERATE
- JURASSIC AND CRETACEOUS**  
JKpw SILTSTONE, GREYWACKE
- JURASSIC**  
uTcg CONGLOMERATE, SHALE  
ImJpw SILTSTONE, SHALE  
mJv TUFF & VOLCANIC BRECCIA
- TRIASSIC**  
uTp SHALE
- COAST PLUTONIC ROCKS**  
qd QUARTZ DIORITE

**NORTH AIR MINES  
SKINNER PROPERTY**

**REGIONAL GEOLOGY**

DRAWN BY:	SCALE: 1:125,000
DATE: JAN/91	FIGURE NO:

The quartz diorite that host the prospect has intruded Upper Norian conglomerate, limestone and greywacke sediments which lie to the north and Early to Middle Jurassic siltstone, shale grit and conglomerate which lie to the north.

Veins discovered to date occur in recessive weathering zones that have, in part been identified as lineations on aerial photographs. Vein outcrop is almost non-existent on the property. The Victoria Vein is the most prominent vein located to date. It trends 070° and has a northerly dip varying from 55-70°. The vein at surface has been traced for 130 metres. At surface it pinch and swells with widths variable to 1.4 metres. Grades throughout are variable. Vein mineralogy consists of a quartz gangue in which up to 5% pyrite along with minor chalcopyrite, malachite and on rare occasion gold occur as disseminations and along fracture faces. In general the sulphides at surface are pitted. A composite of all available trench assays averaged 0.836 opt Au over a 1.05 metre width and a 59 metre length.

Wall rock alteration is patchy and generally weak. Where the alteration is well developed chlorite, sericite and clay minerals are common while secondary silica is rare. Sericite occurs in minor amounts as a gangue mineral in the quartz vein.

Throughout the property and particularly in close proximity to the Victoria Vein fine grained andesite dykes occur.

## 8.0 1991 PROGRAM

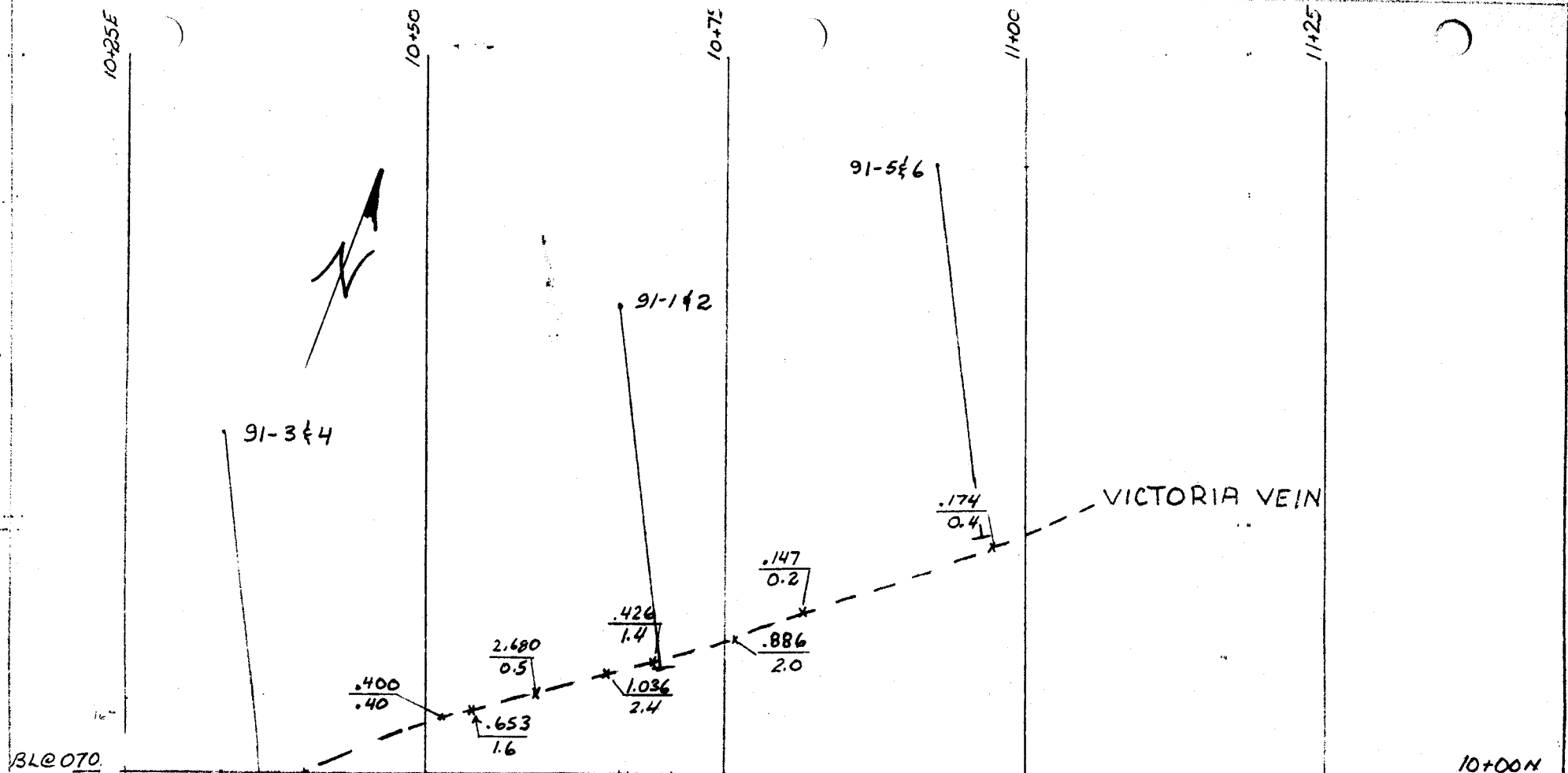
As part of the evaluation of the property six BQTK drill holes totalling 249.9 metres were drilled to test the Victoria Vein. The drilling was completed by F. Boisvenu Drilling, Delta, B.C. using a "Gopher Drill". The drill crew was housed locally at the village of Tatlayoko. All assaying was completed by Vangeochem Labs, Vancouver, B.C.

### 8.1 Drilling

Throughout the drill program two ten hour shifts were employed daily to complete the drill program. All sites were prepared by Boisvenu Drilling with the drill being moved by a bulldozer. All drill sites were tied into the existing grid system.

The core was logged and sampled at Tatlayoko and is presently stored at the abandoned school.



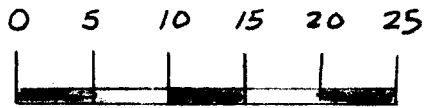


BL0070

10+00N

2.680 Trench Valve Avg  
0.5 width (m)

SCALE  
1:500



NORTH AIR MINES	
SKINNER PROJECT	
DRILL HOLE LOCATIONS	
MAY 8 1992	
92N	FIG

## 8.2 Assaying

All of the samples sent for analysis were geochemically analyzed for gold using the following procedure:

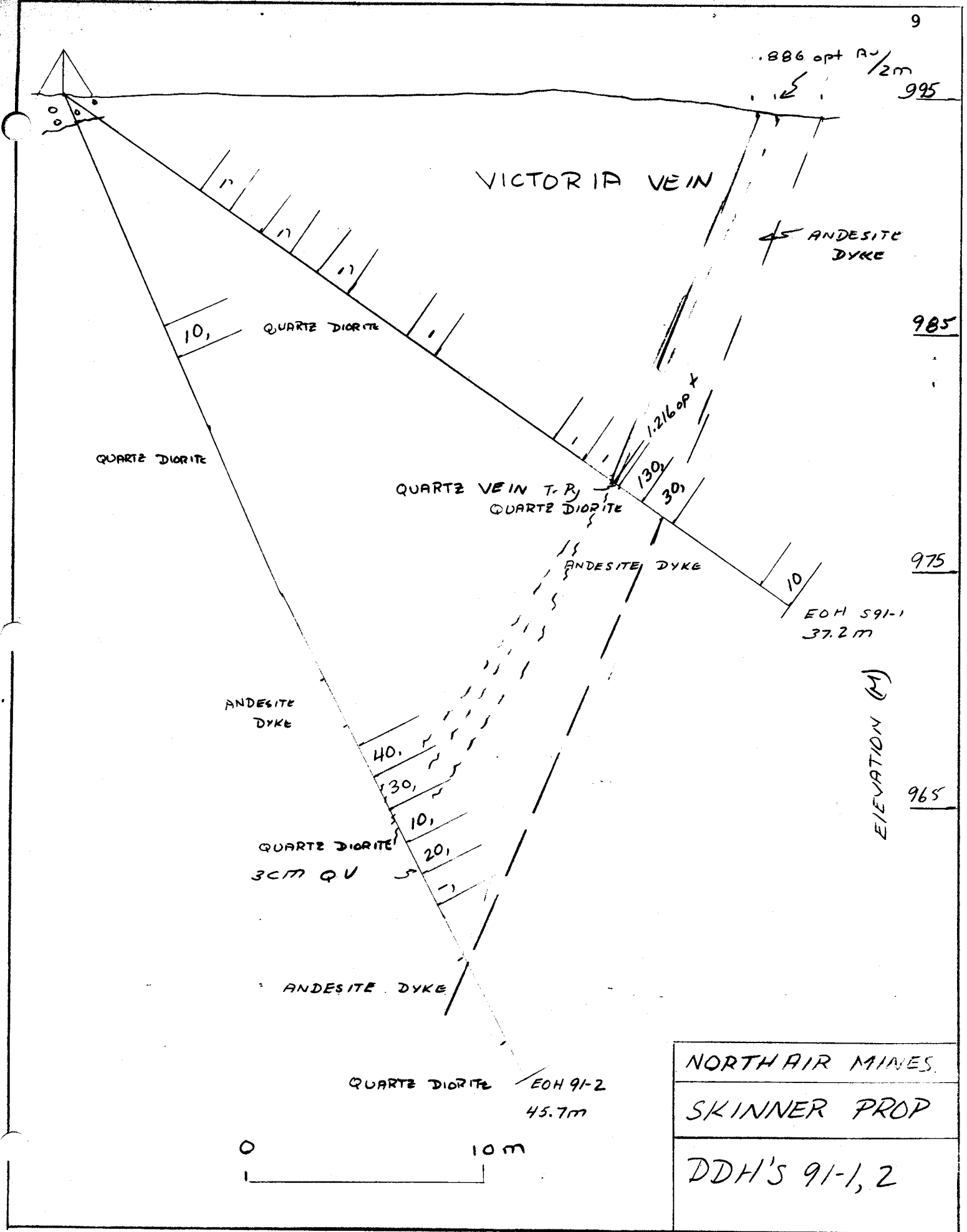
- i) a 10 gram sample is inquartered and fire assayed. The prill is parted in a test tube with 0.5 ml nitric acid. The gold is taken into solution with the addition of 1.5 ml hydrochloric acid. The sample is then bulked to 5.0 ml with distilled water, then analyzed by atomic absorption.
- ii) for fire assay a 1/2 assay ton sample was used with a gravimetric finish.

## 8.3 Drill Results

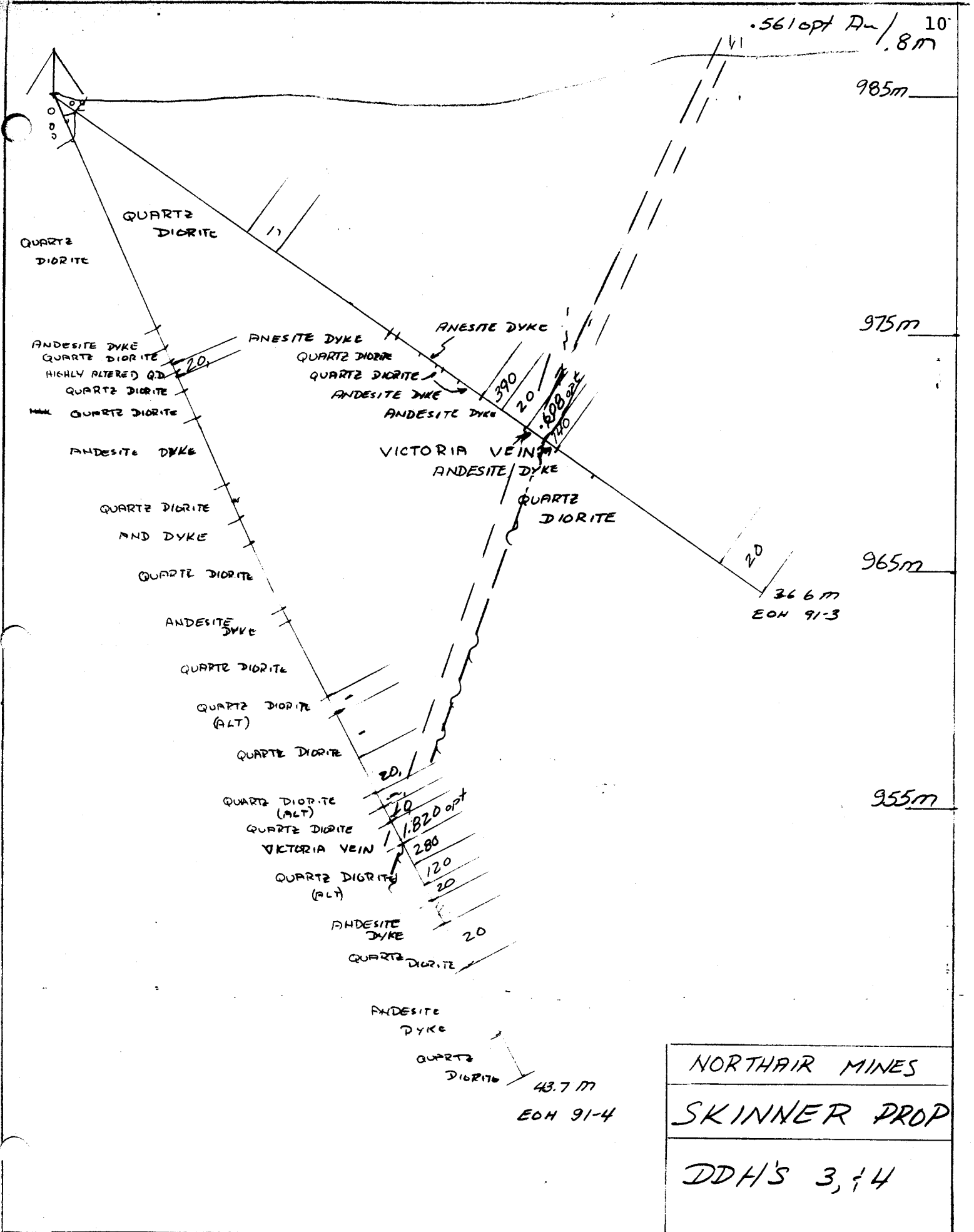
Three drill sites were selected to test the vein over a 64 metre length at vertical depths of 16 and 33 metres. The drill results are summarized below:

Hole	From (m)	To (m)	Int (m)	Au (opt)
91-1	28.4	28.7	0.30	1.216
91-2				nd
91-3	24.5	25.4	0.90	0.608
91-4	33.9	34.9	1.00	1.820
91-5				nd
91-6				nd

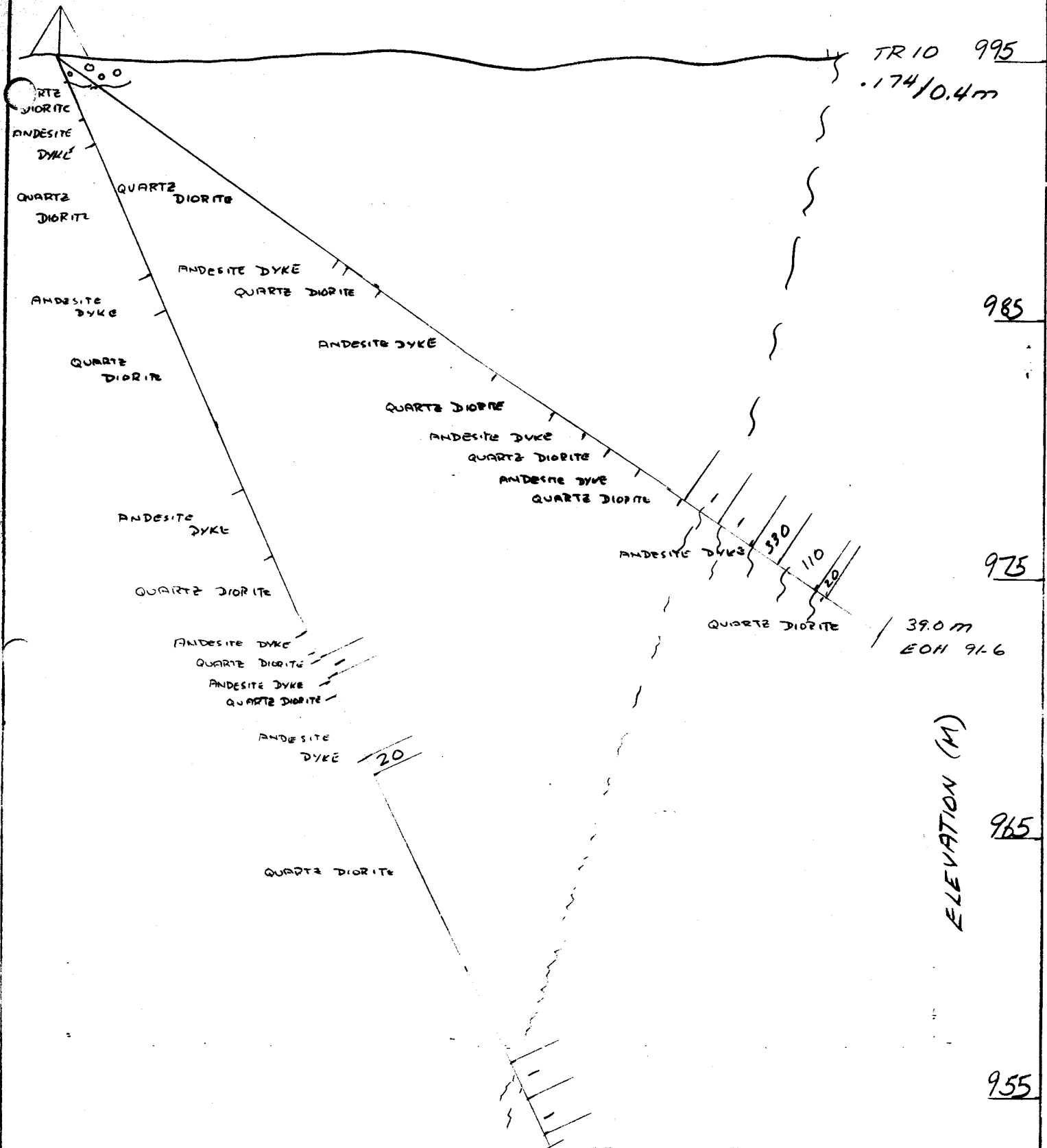
From the results it appears that the vein plunges to the southwest. Holes 91-1 and 2 were located so as to test the vein in an area where trenching had shown the best width and grade. While the shallow hole 91-1 intersected a narrow section of quartz veining the deeper test, 91-2 did not. From a location 30 metres along strike to the southwest of holes 91-1 and 2, the vein was intersected at both targeted depths in holes 91-3 and 4. In both cases the vein width is similar to that located at surface while the grades were appreciably higher. In this section the vein is highly broken up leading to core loss. In hole 91-3, the shallow test, the vein is still highly pitted whereas in hole 91-4 the weathering out of the sulphides is less pronounced resulting in the appearance of noticeable pyrite and chalcopyrite.



NORTH AIR MINES.
SKINNER PROP
DDH'S 91-1, 2



NORTH AIR MINES
SKINNER PROP
DDH'S 3, 4



TR 10 995  
.174/0.4m

985

975

39.0 m  
EOH 91-6

ELEVATION (M)

965

955

20

530  
110  
20

45.7 m  
EOH 91-5

NORTH AIR MINES
SKINNER PROP
DDH'S 91-5, 6

In general the alteration halo surrounding the vein is limited; however in hole 91-4 both the foot and hanging walls have combinations of sericitic, argillic and silica alteration extending out from the vein in patches. Holes 91-5 and 6, located 34 metres along strike to the northeast of the first set-up failed to locate any significant values even though minor quartz veins corresponding to the zone were intersected.

#### 9.0 SUMMARY AND CONCLUSIONS

The Skinner property hosts auriferous veins with the best developed being the Victoria. The vein occurs within a shear zone in a granodioritic intrusive. Mapping and trenching has shown the vein to be variable in width and grade. It has been exposed for 130 metres. A composite of all available trench assays has shown the vein to average 0.836 opt Au over a strike length of 59 metres and an average width of 1.05 metres. Drilling has shown the zone to feather out to the east while to the west it out crops in the cliffs. Overall the zone appears to plunge to the west. The best drill result was 1.820 opt Au over 1.0 metres.

#### 10.0 RECOMMENDATIONS

If further drilling is to be undertaken it should be completed in the vicinity of the western portion of the zone. The purpose of this drilling would be to extend the zone down-dip and along strike.

## 11.0 STATEMENT OF COSTS - SKINNER

1.	<b>Labour</b> Dave Visagie, Senior Geologist October 3-9, 1992 6 days @ \$295/day	<b>Total: \$ 1,770.00</b>
2.	<b>Transportation</b> 6 days truck rental @ \$75/day	<b>Total: \$ 450.00</b>
3.	<b>Room and Board</b> Geologist: 6 days @ \$50/day Drillers: 4 days x 4 men x \$50/day	<b>Total: \$ 1,100.00</b>
4.	<b>Consumables</b> flagging, pickets, plastic bags, etc.	<b>Total: \$ 100.00</b>
5.	<b>Assaying</b> 42 drill core samples prepared @ \$3.00/sample 42 gold analysis by fire assay/AAs finish @ \$7.50/sample 3 gold analysis by fire assay @ \$8.00/sample	<b>Total: \$ 465.00</b>
6.	<b>Drill Cost</b> Total of all bills includes: drilling - \$14,778.00 tractor use - \$ 675.00 acid tests - \$ 324.00 materials - \$ 305.98 mobe/demobe - \$ 2,900.00	<b>Total: \$18,982.98</b>
7.	<b>Report</b>	<b>Total: \$ 300.00</b>
		<b>Sub-total: \$23,167.98</b>
8.	<b>Management Fee (10%)</b>	<b>Total: \$ 2,316.80</b>
		<b>TOTAL: <u>\$25,484.78</u></b>

## 12.0 STATEMENT OF QUALIFICATIONS

I, D.A. Visagie of 860 - 625 Howe Street, Vancouver, British Columbia, do hereby declare that:

1. I graduated from the University of British Columbia with a Bachelor of Science Degree, majoring in Geology, in 1976.
2. I have been steadily employed in the mining industry since then and have since January 1990 been employed by Northair Mines Ltd. as Senior Geologist.
3. The work undertaken on the Skinner group was under my supervision.

Dated at Vancouver, British Columbia, this 8th day of May, 1992.



**APPENDICES**

APPENDIX 1

Drill Logs

**NORTHAIR MINES LTD.**

Diamond Drill Hole Record

Project:

DEPTH	BEARING	DIP	SURVEY TYPE	PROPERTY: <i>Skinner</i>	LENGTH: <del>37.7</del> 37.2	HOLE NO.: <i>SS-91-1</i>
COLLAR	156°	35°	<i>Company</i>	CLAIM: <i>Skinner</i>	CORE SIZE: <i>86</i>	SHEET NO. 1 of 2
-37.2		-35°	<i>Recd</i>	LATITUDE: <i>10+038.5 N</i>	RECOVERY: <i>95%</i>	LOGGED BY: <i>D. Visagie</i>
				DEPARTURE: <i>101066 E</i>	STARTED: <i>October 4, 1991</i>	SAMPLED BY: <i>J. Visagie</i>
				ELEVATION: <i>995</i>	COMPLETED: <i>October 4, 1991</i>	PURPOSE: <i>Test Victoria vein</i>

Interval (meters)	Rock Type	Geologic Description	Alteration				Mineralization					Assay Data							Core Data								
			From	To	SIL	ILLITE	CHLOR	CAH2	% Pyh	% Cp	% Gm	% Sp	% Gr	Sample No.	From	To	Int	Au opt	Ag opt	Au checked	Ag checked	Cu %	Pb %	Zn %	ROD %	Run	Recovery %
0	28.4	QB																									
		Quartz Ductile - Ductile																									
		Coarse grained greyish white with black matrix/blende																									
		blende fractured dip with fractures occurring most commonly @ 45° to core																									
		veinlet about the block chlorite alt or sec. Mnac																									
		epidote alt adjacent to some fractures. To 11.6																									
		relatively massive. From 19.2 appears with 4:3pm																									
		blende alt with Mnac from 11.6. From 20.4-21.2																									
		ductile fractures																									
		from 22.0-25.0 the unit is fractured dip. From 11.6 the section blende																									
		is more calcic sections																									
28.4	28.7	QV																									
		Victoria Quartz Vein																									
		pale white with light brownish tinge drusy																									
		to py minor coarse contact ore broken																									

\* opt



**NEWHAWK GOLD MINES LTD.**  
Sulphurets Project

Drill Hole No. 391-1  
Page 2 of 2

Interval (meters)		Rock Type	Geologic Description	Alteration				Mineralization				Assay Data						Core Data								
From	To			From	To	SIL	CHLOR	SER	CARB	% Py	% Cp	% Mag	% Mo	Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	ROD %	Run	Recovery %
28.7	31.0	QD	Quartz, Dreck - similar to previous										9008	25.7	29.9	1.2	130									
31.0	37.2	And	Andesitic Dyke Dyke fine grained pale green colored has minor fragments of quartz dreck upto 30cm in size Minor calc veinlets barren, + epidote weals chlorite alt. Fractures @ 70° & 45° ca										9009	29.9	31.4	1.5	80									
													10010	36.0	37.5	1.3	10									

# NORTHAIR MINES LTD.

Diamond Drill Hole Record

Project:

DEPTH	BEARING	DIP	SURVEY TYPE	PROPERTY: <i>Skinner</i>	LENGTH: <i>45.7 m</i>	HOLE NO.: <i>SS 91-2</i>
COLLAR	<i>156</i>	<i>-66°</i>	<i>Diad</i>	CLAIM: <i>Skinner</i>	CORE SIZE: <i>86</i>	SHEET NO. <i>1 of 2</i>
<i>245-7</i>		<i>-63</i>	<i>Diad</i>	LATITUDE: <i>101038.5N</i>	RECOVERY: <i>795%</i>	LOGGED BY: <i>D. V. S. G. J. R.</i>
				DEPARTURE: <i>101066E</i>	STARTED: <i>Oct 4/91</i>	SAMPLED BY: <i>D. V. S. G. J. R.</i>
				ELEVATION: <i>995</i>	COMPLETED: <i>Oct 5/91</i>	PURPOSE: <i>test Skinner</i>

Interval (meters)	Rock Type	Geologic Description	Alteration			Mineralization					Assay Data						Core Data								
			SIL	ILLITE	CHLOR	% Pyh	% Cp	% Ga	% Sp	% Gr	Sample No.	From	To	Int	Au opt	Ag opt	Au checked	Ag checked	Cu %	Pb %	Zn %	RQD %	Run	Recovery %	
0	12	Case																							
12	22.3	CD	Quartz Diorite																						
			Medium - coarse grained greenish white matrix with 40% mafic (blende) with short sections of higher mafic content fractured @ 30° & 45° occasionally brecciated with quartz crystals irregularly distributed At 10.8 m 8 cm quartz veins from 16.8 - 22.7 the unit is highly fractured																						
22.3	29.5	Adak	Andesite Dyke																						
			Dyke - fine grained, pale grayish green lower in upper contact @ 60° to ca brecciated with mod epidote & H. At 22.6 m 8 cm quartz veins @ 76° brecciated																						

**NEWHAWK GOLD MINES LTD.  
Sulphurets Project**

Drill Hole No. SS-91-2

Page 2 of 2

Interval (meters)		Rock Type	Geologic Description	Alteration				Mineralization				Assay Data						Core Data							
From	To			From	To	SIL	CHLOR	SER	CARB	% Py	% Cp	% Bing	% Mo	Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	ROD %	Run
29.5	40.5	QD	Quartz Diorite similar to previous from 32.0- 34.7 highly fractured <sup>quartz</sup> at 30.9 in a 1cm band of ep @ 80° to ca @ 36.0 3cm gva 80° to ca to py (possible Victoria vein weak gossanous stain along fracture faces										90018	30.5	32.0	1.5	40								
													90019	32.0	32.5	1.5	30								
													90049	33.5	35.0	1.5	10								
													90015	35.1	36.6	1.5	20								
													90018	36.6	38.1	1.5	nd								
40.5	44.5	Adk	Andesite Dyke Dyke - similar to previous has minor inclusions of intergrowth weak epidote alt																						
44.5	45.7	QD	Quartz Diorite Similar to previous # 45.7 e.o.t.																						

# NORTHAIR MINES LTD.

Diamond Drill Hole Record

Project:

DEPTH	BEARING	DIP	SURVEY TYPE	PROPERTY: <i>Skinner</i>	LENGTH: <i>36.6</i>	HOLE NO.: <i>SS 91-3</i>
COLLAR	<i>144</i>	<i>-35</i>	<i>Compass</i>	CLAIM: <i>Skinner</i>	CORE SIZE: <i>BG</i>	SHEET NO. <i>1</i> of
<i>36.6</i>		<i>-34</i>	<i>Reid</i>	LATITUDE: <i>10°10'28.5"N</i>	RECOVERY: <i>795</i>	LOGGED BY: <i>D. Visage</i>
				DEPARTURE: <i>10°10'33"E</i>	STARTED: <i>October 6, 1991</i>	SAMPLED BY: <i>D. Visage</i>
				ELEVATION: <i>984</i>	COMPLETED: <i>October 6, 1991</i>	PURPOSE: <i>Test Victoria Vein</i>

Interval (meters)		Rock Type	Geologic Description	Alteration				Mineralization					Assay Data							Core Data								
From	To			From	To	SIL	ILLITE	CHLOR	CARB	% Pyh	% Cp	% Ga	% Sp	% Gr	Sample No.	From	To	Int	Au opt	Ag opt	Au checked	Ag checked	Cu %	Pb %	Zn %	RQD %	Run	Recovery %
0	12	Cas	Casing																									
12	175	QD	Mafic Rock Quartz Diorite pale green green matrix in white with mafic's occur Minor K-spar alt. weak chlorite fls, epidote commonly dev along fracture faces and adjacent to veins Veining, minor 45° Fracturing commonly dev @ 60 to 90° Ca. Fractures are limonite lined																									
			16.9 10cm contact zone matrix barren																									
175	179	And	Andesite Dyke dark green green matrix alt along fracture faces barren matrix contacts																									
179	19.1	QD	Quartz Diorite similar to previous matrix contacts																									



**NEWHAWK GOLD MINES LTD.**  
Sulphurets Project

Drill Hole No. 591-3

Page 2 of     

Interval (meters)		Rock Type	Geologic Description	Alteration				Mineralization				Assay Data							Core Data							
From	To			From	To	SIL	CHLOR	SER	CARB	% Py	% Cp	% Mag	% Mo	Sample	From	To	Int	Au opt	Cu %	Au drack	Cu drack	Ag opt	Mo %	RQD %	Run	Pass %
19.1	19.9	Ande	Andesitic Dyke similar to previous lower contact @ 80°																							
19.9	20.2	QD	Quartz Diorite - similar to previous contacts irregular																							
20.2	21.1	And	Andesitic Dyke similar to previous - lower contact @ 20°																							
21.1	22.2	QD	Quartz Diorite - similar to previous																							
22.2	24.5	And	Andesitic Dyke - similar to previous - contains minor quartz carb veins that are mostly incrustations fractured in lens 1m											20017	22.2	23.2	1.0	390								
														90016	23.2	24.5	1.3	20								



**NEWHAWK GOLD MINES LTD.**  
Sulphurets Project

Drill Hole No. 5591-3

Page 3 of 3

Interval (meters)		Rock Type	Geologic Description	Alteration				Mineralization				Assay Data						Core Data							
From	To			From	To	SIL	CHLOR	SER	CARB	% Py	% Cp	% Mag	% Mo	Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	ROD %	Run
24.5	25.4	QV	Quartz Vein (Victoria highly fractured -1/2 gauge in last 10 cm highly brecciated with limonite matrix QV greyish white 1% py t/o to mal, cp									90019	24.5	25.4	0.9	100									
25.4	26.0	QD	Quartz Diabase - highly altered and fractured - part siliceous - gauge like in part 10cm									90029	25.4	26.0	0.6	140									
26.0	28.0	Ad	Andesite Dyke - similar to previous																						
28.0	36.6	Q.D	Quartz Diabase - similar to previous epidote alt t/o minor py clots in last 2m									90021	34.5	36.6	2.1	20									



# NORTH AIR MINES LTD.

Diamond Drill Hole Record

Project:

DEPTH	BEARING	DIP	SURVEY TYPE	PROPERTY: <i>Skinner</i>	LENGTH: <i>45.7</i>	HOLE NO.: <i>SS 91-4</i>
COLLAR	<i>144°</i>	<i>-66</i>	<i>Compass</i>	CLAIM: <i>Skinner</i>	CORE SIZE: <i>30</i>	SHEET NO. <i>1 of 6</i>
	<i>-45.7</i>	<i>-63</i>	<i>Acid</i>	LATITUDE: <i>10+028.5N</i>	RECOVERY: <i>795%</i>	LOGGED BY: <i>D. Visagie</i>
				DEPARTURE: <i>10+033E</i>	STARTED: <i>October 5</i>	SAMPLED BY: <i>D. Visagie</i>
				ELEVATION: <i>985</i>	COMPLETED: <i>October 6</i>	PURPOSE:

Interval (meters)		Rock Type	Geologic Description	Alteration				Mineralization					Assay Data						Core Data									
From	To			From	To	SIL	ILLITE	CHLOR	CARB.	% Pyh	% Cp	% Ga	% Sp	% Gr	Sample No.	From	To	Int	Au opt	Ag opt	Au checked	Ag checked	Cu %	Pb %	Zn %	ROD %	Run	Recovery %
0	2.1	OVB	Casing - Overburden																									
2.1	10.8	QD	Quartz Drunk greyish green matrix in part porphyritic (blister) in which 30% matrix comprised of biotite and chlorite occur. epidote alt occurs the most commonly along fractures (irregular) fractures commonly dip @ 60° to ca and are on occ limonite lined core is highly fractured +/a with section from 5.0 - 10 approx in large fault / fracture zone																									
10.8	11.7	And	Andesitic Dike fine grained pale green highly epidotized on occ broken the barren upper lower contacts @ 10° to ca																									



**NEWHAWK GOLD MINES LTD.**  
**Sulphurets Project**

Drill Hole No. SS 91-4  
 Page 2 of 6

Interval (meters)		Rock Type	Geologic Description	Alteration		Mineralization				Assay Data						Core Data										
From	To			From	To	SIL	CHLOR	SER	CARB	% Py	% Cp	% Mag	% Mo	Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	RQD %	Run	Recovery %
11.7	12.3	QD	Quartz Diorite - similar to previous lower contact may @ 20' to cc																							
12.3	12.9	QD	Highly Altered Q.D. epidatized and silicified zone pale greenish white color, <sup>to top</sup> <del>bank</del> folded plane's observed. Weak quartz vein stockwork broken tho. Banner. Almost vein like in appearance lower contact @ 10' to cc										11022	12.3	12.9	0.6	20									
12.9	13.7	Q.D	Quartz Diorite - similar to 11.7-12.3																							
13.7	15.0	QD	Mixture of Quartz Diorite and <sup>to top</sup> <del>bank</del> version of same - banner																							
15.0	16.0	And	Andesite Tuff - similar to previous - epidate stringers anastomosing See 1/6 Banner																							

**NEWHAWK GOLD MINES LTD.  
Sulphurets Project**

Drill Hole No. SS 91-4

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Interval (meters)		Rock Type	Geologic Description	Alteration		Mineralization				Assay Data						Core Data									
From	To			From	To	SIL	CHLOR	SER	CARB	% Py	% Cp	% Mag	% Mo	Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	ROD %	Run
18	19.5	QD	QUARTZ DIORITE MATRIX - PPLG gneiss white wood with 40% mafics. Epidote 1/6 as stringers both regular and irregular.																						
19.5	20.7	And	Andesite <del>Flow</del> Dyke - similar to previous upper contact @ 45° lower broken																						
20.7	23.8	QD	Quartz Diorite - similar to 18-19.5 - lower contact 100%																						
23.8	24.4	And	Andesite Dyke - similar to previous																						
24.4	28.0	Q.D	Quartz Diorite - similar to 18-19.5 - gradual lower contact																						

**NEWHAWK GOLD MINES LTD.  
Sulphurets Project**

Drill Hole No. SS 91-4

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Interval (meters)		Rock Type	Geologic Description	Alteration				Mineralization				Assay Data						Core Data								
From	To			From	To	SIL	CHLOR	SER	CARB	% Py	% Cp	% Mag	% Mo	Sample	From	To	Int	Au opt	Cu %	Au chck	Cu chck	Ag opt	Mo %	ROD %	Run	Recovery %
28.0	28.8	QD	Highly Altered Quartz Diorite pale greenish brown colored epidote rich, silicified quartz phen's the grades quickly into less altered intrusive. Weak streak harden										2025	28.0	28.8	0.8	nd									
28.8	32.5	QD	Quartz Diorite - similar to previous highly fractured tho weak - much limonite stain along fracture faces more dissemin py, fractures at various angles 60 45 30 to be most common good lower contact over 5m										20021	28.8	30.8	2.0	nd									
													20025	30.8	32.5	1.7	20									
32.5	33.1	QD	Highly Altered Quartz Diorite - similar to previous - irregular contacts - highly silicified										2025	32.5	33.1	0.6	nd									
33.1	33.9	QD	Quartz Diorite - similar to 28.8 - 32.5 highly fractured 4/1 possible weak streak										20027	33.1	33.9	0.1	10									

Interval (meters)		Rock Type	Geologic Description	Alteration				Mineralization				Assay Data						Core Data							
From	To			From	To	SIL	CHLOR	SER	CARB	% Py	% Cp	% Mag	% Mo	Sample	From	To	Int	As opt	Cu %	As check	Cu check	Ag opt	Mo %	ROD %	Flux
33.9	34.9	Q.V	Quartz Vein (Victoria ~50% recovery greyish white mineral length 40cm ~10% pyrite as large clots with minor sp									9007	33.9	34.9	1.0	1.80									
34.9	37.7	Q.D	Altered Quartz Diorite pale greyish white fractured and/or healed with <sup>chlorite</sup> graphite disseminated pyrite within with host and in <sup>filled</sup> fractures, highly siliceous 1/2 chlorite altered in previous lower contact @ 20°									9007	34.9	35.9	1.0	2.50									
												9007	35.9	36.9	1.0	1.20									
												9008	36.9	37.7	0.8	2.0									
37.7	38.8	A.d	Andesite Dyke -similar to previous -lower contact may @ 20°																						
38.8	40.8	Q.D	Quartz Diorite a more granodioritic phase contains 1/2 pyrite as disseminated -mineral weight made all weakly siliceous									9008	38.8	40.8	2.0	2.0									



**NEWHAWK GOLD MINES LTD.**  
Sulphurets Project

Drill Hole No. 55 71-4

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Interval (meters)		Rock Type	Geologic Description	Alteration				Mineralization				Assay Data						Core Data								
From	To			From	To	SIL	CHLOR	SER	CARB	% Py	% Cp	% Mag	% Mo	Sample	From	To	Int	Au opt	Cu %	Au drck	Cu drck	Ag opt	Mo %	RQD %	Run	Recovery %
30.8	44.0	And	Coarse grained andesitic dike Pale greyish green colored, barren, limonite stained fractures with fractures being limonite stained. Fractures are @ 45 and 1 to ca weak carbonate veining																							
42.0	55.70D		Quartz Diorite similar to 38.8-40.6 high iron in last m fracturing 1 to ca																							
			53.7 to 57.4																							

# NORTHAIR MINES LTD.

Diamond Drill Hole Record

Project:

DEPTH	BEARING	DIP	SURVEY TYPE	PROPERTY: <i>Skinner</i>	LENGTH: <i>45.7</i>	HOLE NO.: <i>55 91-5</i>
COLLAR	<i>144</i>	<i>-66</i>	<i>Compass</i>	CLAIM: <i>Skinner</i>	CORE SIZE: <i>80</i>	SHEET NO. <i>1 of</i>
<i>45.7</i>	<i>-1</i>	<i>-64</i>	<i>Reel</i>	LATITUDE: <i>10°05'N 11</i>	RECOVERY: <i>7952</i>	LOGGED BY: <i>D. Visage</i>
				DEPARTURE: <i>10+0925E</i>	STARTED: <i>Oct 6 91</i>	SAMPLED BY: <i>"</i>
				ELEVATION: <i>995</i>	COMPLETED: <i>Oct 6 91</i>	PURPOSE: <i>Skinner</i>

Interval (meters)		Rock Type	Geologic Description	Alteration				Mineralization					Assay Data						Core Data										
From	To			From	To	SI	ILLITE	CHLOR	CARB.	% Pyh	% Cp	% Ga	% Sp	% Gr	Sample No.	From	To	Int	Au opt	Ag opt	Au checked	Ag checked	Cu %	Pb %	Zn %	ROD %	Run %	Recovery %	
0	1.0		Casing																										
1.0	2.6	AD	Quartz Diarite Dark greyish green matrix (40-50%) of b.b. bands and blebs set in a plgy quartz matrix late grey white weak to moderate epidote alt fln in association with fracture structures, common @ 50° to 60°																										
2.6	3.7	Ad	Andesite Dyke green with pale green areas (epidote alt) epidote common the fine grained base																										
3.7	9.1	AD	Quartz Diarite similar to previous lower contact irregular																										
9.1	10.7	Ad	Andesite Dyke similar to previous																										



**NEWHAWK GOLD MINES LTD.**  
Sulphurets Project

Drill Hole No. SS 91-5

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Interval (meters)		Rock Type	Geologic Description	Alteration				Mineralization				Assay Data						Core Data							
From	To			From	To	SIL	CHLOR	SER	CARB	% Py	% Cp	% Mag	% Mo	Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	RQD %	Run
10.7	18.2	Q.D	Quartz Diorite similar to previous fracturing // to ca common Minor qu. ematically distributed 12.5 - 10cm qu @ 80° barren										90033	12.2	13.7	1.5	10								
18.2	21.0	And	Andesite Dyke - similar to previous - fracturing // to ca weak limonite alt along fractures - lower contact @ 45°																						
21.0	24.7	QD	Quartz Diorite - similar to previous																						
24.2	25.0	And	Andesite Dyke - similar to previous last 20 cm highly broken																						
25.0	25.3	QD	Quartz Diorite - similar to previous																						



Interval (meters)		Rock Type	Geologic Description	Alteration				Mineralization				Assay Data						Core Data								
From	To			From	To	SIL	CHLOR	SER	CARB	% Py	% Cp	% Mag	% Mo	Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	RDD %	Run	Pass %
25.3	26.3	And	Andesite Dyke - sheared, epidote alt, similar to previous, weak quartz barren										9003	25.3	26.3	1.0	nd									
26.3	26.8	QD	Quartz Diorite - similar to previous, indistinct contacts																							
26.8	29.6	And	Andesite Dyke - similar to previous lower contact @ 60°																							
29.6	45.7		Quartz Diorite - similar to previous @ 30 is 10cm quartz @ 70° weak x-cutting veins - minor section Andesite Dyke @ 42.8 is 20cm section epidote rock highly fractured from 43.2 from to end with weak quartz											9005	29.6	30.5	0.9	20								
													9006	42.7	44.2	1.5	nd									
													9007	44.2	45.7	1.5	ad									

# NORTHAIR MINES LTD.

Diamond Drill Hole Record  
Project:

DEPTH	BEARING	DIP	SURVEY TYPE	PROPERTY: <i>Skinner</i>	LENGTH: <i>39.0m</i>	HOLE NO.: <i>5591-6</i>
COLLAR	<i>144</i>	<i>-35</i>	<i>Compass</i>	CLAIM: <i>Skinner</i>	CORE SIZE: <i>36</i>	SHEET NO. <i>1</i> of <i>4</i>
	<i>39</i>	<i>-34</i>	<i>Acid</i>	LATITUDE: <i>10+051N!</i>	RECOVERY: <i>95%</i>	LOGGED BY: <i>D. J. ...</i>
				DEPARTURE: <i>10+0925E</i>	STARTED: <i>Oct 7, 1991</i>	SAMPLED BY: <i>✓</i>
				ELEVATION: <i>995</i>	COMPLETED: <i>Oct 7, 1991</i>	PURPOSE: <i>test Skinner</i>

Interval (meters)		Rock Type	Geologic Description	Alteration				Mineralization					Assay Data							Core Data							
From	To			From	To	SH.	ILLITE	CHLOR.	CARB.	% Pyh	% Cp	% Ga	% Sp	% Gr	Sample No.	From	To	Int	Au opt	Ag opt	Au checked	Ag checked	Cu %	Pb %	Zn %	RQD %	Run
<i>0</i>	<i>2.1</i>	<i>Ces</i>	<i>Casing</i>																								
<i>2.9</i>	<i>13.6</i>	<i>QD</i>	<i>Quartz Diorite</i> <i>Coarse grained pale grey white</i> <i>matrix with 20-40% mafics</i> <i>consisting of biotite, hornbl.</i> <i>Epidote abt common to m</i> <i>excess with fractures</i> <i>Fractures @ 60° and most</i> <i>prevalent minor acidic</i> <i>in situ 9.7-10.4</i> <i>Weak hematite stain</i> <i>along fracture faces</i> <i>Minor quartz veins, small</i> <i>data listed</i>																								

Interval (meters)		Rock Type	Geologic Description	Alteration				Mineralization				Assay Data						Core Data								
From	To			From	To	SIL	CHLOR	SER	CARB	% Py	% Cp	% Mag	% Mo	Sample	From	To	Int	Au opt	Cu %	As chkd	Cu chkd	Ag opt	Mo %	RGD %	Run	Recovery %
13.6	14.1	And	Andesite Dyke pale green, fine grained, Upper contact @ 80° lower broken, barren, Minor epidote lens along fracture faces																							
14.7	<del>14.7</del> 15.7	QD	Quartz Diorite -similar to previous																							
15.7	21.2	And	Andesite Dyke -similar to previous -minor carb - & vesiculate @ 80° -from 17.0 - 17.9 fracturing, 11 to 12 minor inclusions of QD 1/6 -minor barite stain along fracture faces																							
21.2	<del>21.2</del> 23.8	QD	Quartz Diorite -similar to previous -minor carb - & vesiculate @ 80° -short sections of andesitic dyke barren - 1/6 -lower contact highly epidote all																							

**NEWHAWK GOLD MINES LTD.  
Sulphurets Project**

Drill Hole No. LS91-6

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Interval (meters)		Rock Type	Geologic Description	From	To	Alteration				Mineralization				Assay Data						Core Data				
From	To					SIL	CHLOR	SER	CARB	% Py	% Cp	% Mag	% Mo	Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	RGD %
25.8	25.2	And	Andesite Dyke Similar to previous - hairline fracture network throughout - spidite with minor calcite veining																					
25.2	26.8	QD	Quartz Diorite - similar to previous - chloritized, spidite with lower content - barren																					
26.4	27.8	And	Andesite Dyke - similar to previous - hairline fracture network throughout																					
27.8	29.9	QD	Quartz Diorite - similar to previous - chloritized, spidite with lower content - barren																					



**NEWHAWK GOLD MINES LTD.**  
Sulphurets Project

Drill Hole No. SS-91-L

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Interval (meters)		Rock Type	Geologic Description	Alteration				Mineralization				Assay Data						Core Data							
From	To			From	To	SIL	CHLOR	SER	CARB	% Py	% Cp	% Mag	% Mo	Sample	From	To	Int	Au opt	Cu %	Au check	Cu check	Ag opt	Mo %	ROD %	Run
29.9	36.4	ps	Andesite										91201	29.9	31.4	1.5	nd								
			- similar to previous rock grey green with blue stained in some. Epidote with 1/2 impurities a light blue green color in areas of weathering. Lignite veins broken into limonite with common along fracture faces.										91202	31.4	32.9	1.5	nd								
			between 34.2 and 36.0 occur quartz veinlets (Victoria Zone)										91203	32.9	34.2	1.3	330								
			@ 34.3 2cm vein @ 45° 1% cp 5% py - veins well exposed out lignite common										91204	34.2	36.0	1.8	110								
			34.6 1 cm qu @ 40° 5% py no one splitch										36-36												
			34.2 1cm qu @ 70 barren										91205	36.0	36.4	0.4	20								
			35.7 20 cm qu broken up to py																						
36.4	39.0	OD	Quartz Diacite - similar to previous 39.0 d. O. l.																						

REPORT NUMBER: 910261 GA

JOB NUMBER: 910261

INTERNATIONAL BORTHAIR MINES LTD.

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SAMPLE #	Au ppb
90001	nd
90002	nd
90003	nd
90004	nd
90005	nd
90006	nd
90007	> 10000
90008	130
90009	30
90010	10
90011	10
90012	40
90013	30
90014	10
90015	20
90016	nd
90017	390
90018	20
90019	> 10000
90020	140
90021	20
90022	20
90023	nd
90024	nd
90025	20
90026	nd
90027	10
90028	> 10000
90029	280
90030	120
90031	20
90032	20
90033	10
90034	nd
90035	20
90036	nd
90037	nd
91201	nd
91202	nd

DETECTION LIMIT

5

nd = none detected

-- = not analysed

ls = insufficient sample



MAIN OFFICE  
1630 PANDORA STREET  
VANCOUVER, B.C.  
V5L 1L6  
TEL (604) 251-5656  
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BRANCH OFFICES  
BATHURST, N.B.  
RENO, NEVADA, U.S.A.

REPORT NUMBER: 910261 GA

JOB NUMBER: 910261

INTERNATIONAL BORTHAIR MINES LTD.

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SAMPLE #	Au
91203	330
91204	110
91205	20

DETECTION LIMIT  
nd = none detected

-- = not analysed

5  
is = insufficient sample



MAIN OFFICE  
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BRANCH OFFICES  
BATHURST, N.B.  
RENO, NEVADA, U.S.A.

REPORT NUMBER: 910261 AA

JOB NUMBER: 910261

INTERNATIONAL BORTHAIR MINES LTD

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SAMPLE #	Au oz/st
90007	1.216
90019	0.608
90028	1.820

DETECTION LIMIT

0.005

1 Troy oz/short ton = 34.28 ppm

1 ppm = 0.0001 %

ppm = parts per million

&lt; = less than

signed: \_\_\_\_\_  
