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**KENORA GOLD
OCCURRENCES INC.**

PRINCESS/BLACK STURGEON GOLD PROPERTY
HAYCOCK TOWNSHIP
KENORA MINING DIVISION
ONTARIO

REPORT ON
GEOCHEMICAL SAMPLING, GEOPHYSICS, TRENCHING
AND DIAMOND DRILLING

J.A. GOODWIN, FGAC
JANUARY 30th, 1989

SUMMARY

The Princess/Black Sturgeon property consists of 12 mineral claims, 1.5 km northeast of Kenora airport, in Haycock Township, Ontario.

During 1988 the property was explored using ground geophysics, and three targets tested by geochemistry, trenching, drilling and sampling.

Two drill holes tested the Princess occurrence but failed to intersect the vein at depth.

The East Zone of the Black Sturgeon shear was located by soil geophysics and tested by trenching, drilling and sampling. Gold values up to 1.02 oz/t over widths up to 6.4 feet were found over a 200 foot strike length and to 106 feet depth. The zone is open to, and appears to be strengthening towards, the west. A second zone of weak gold mineralization was detected north of the main shear by drilling.

The Shaft Zone of the Black Sturgeon shear was tested by trenching and drilling. The zone was found to be similar to the East Zone but mineralization appears weaker, with the best drill intersection being 0.22 oz/t Au over 2.2 feet. A number of drill holes were collared in a second mineralized zone south of the main zone. Gold values reach 0.09 oz/t over 3.3 feet, but true width and grade of the zone are not yet known.

A further drill program is recommended to test the 800 foot strike-length of the Black Sturgeon shear between the East and Shaft Zones and the newly-discovered zone south of the Black Sturgeon shaft.



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1.0 INTRODUCTION

This report details exploration of the Princess/Black Sturgeon property during 1988. The program consisted of linecutting, magnetic and VLF-EM surveys, humus sampling, prospecting, trenching and diamond drilling. Results of the property-coverage geophysical surveys are given in the accompanying "Report on ground magnetic and VLF-EM surveys, Princess/Black Sturgeon and Rajah/Roseman properties, Haycock and Jaffray Townships, Ontario" by F.L.Jagodits. The detailed geophysics are included in this report.

The aim of the program was to test a number of areas that have potential for economic gold mineralization.

2.0 PROPERTY DESCRIPTION AND LOCATION

The Princess/Black Sturgeon property consists of 12 contiguous mineral claims 1.5 km northeast of Kenora airport in Haycock Township, Kenora Mining Division, District of Kenora, Ontario.

Claim numbers are:

899595, 899596, 899597, 899598, 899599, 899600, 1003736, 1003737, 1003738, 1003739, 1003740, 1003741.

All claims are in good standing. Surface rights are vested in the Crown with the exception of a narrow strip of small patents and cottage leases on the shore of Black Sturgeon Lake. Right-of-ways cross the property for the Northern Ontario Pipeline (Crown Corporation) and Trans Canada Pipelines.

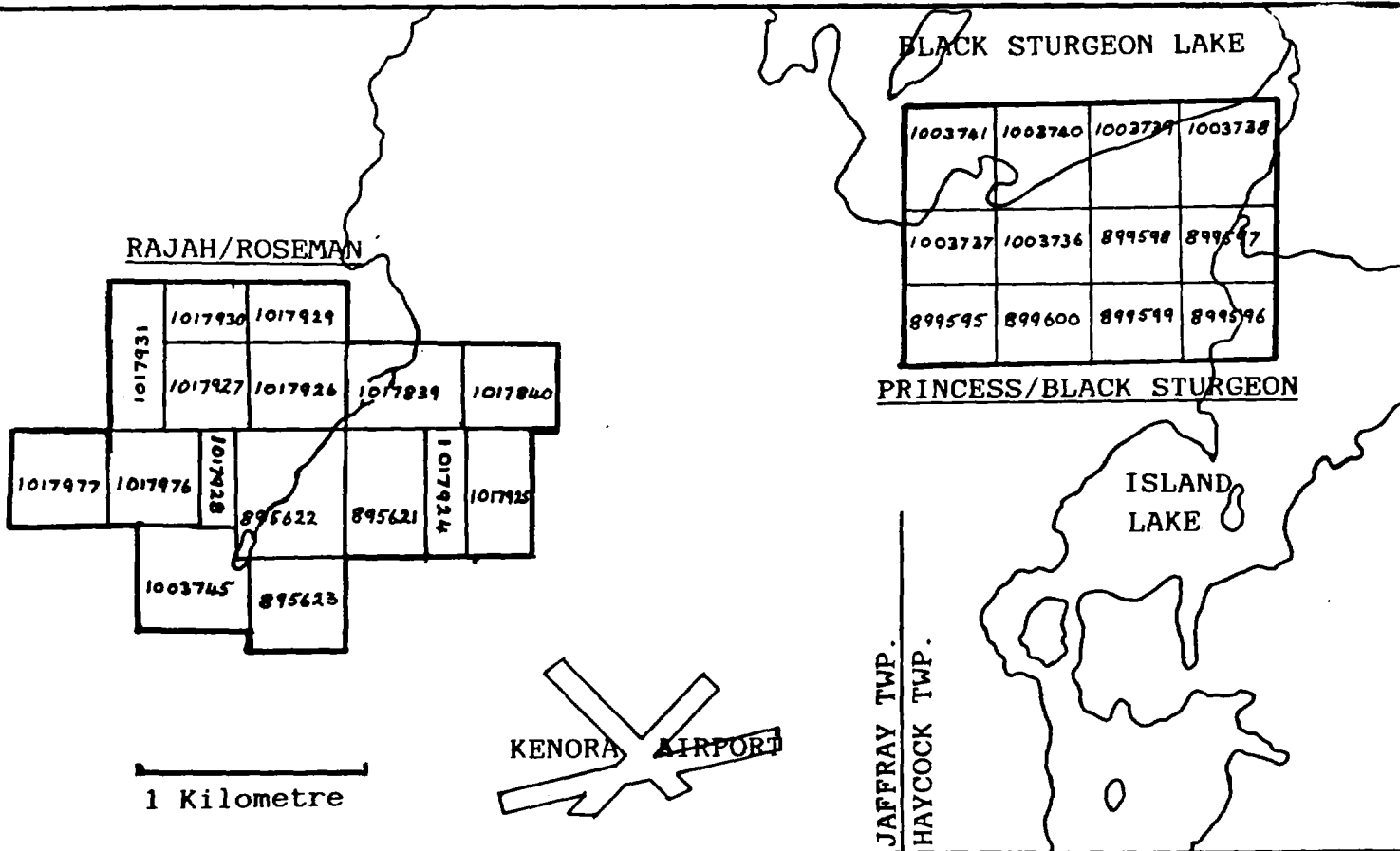
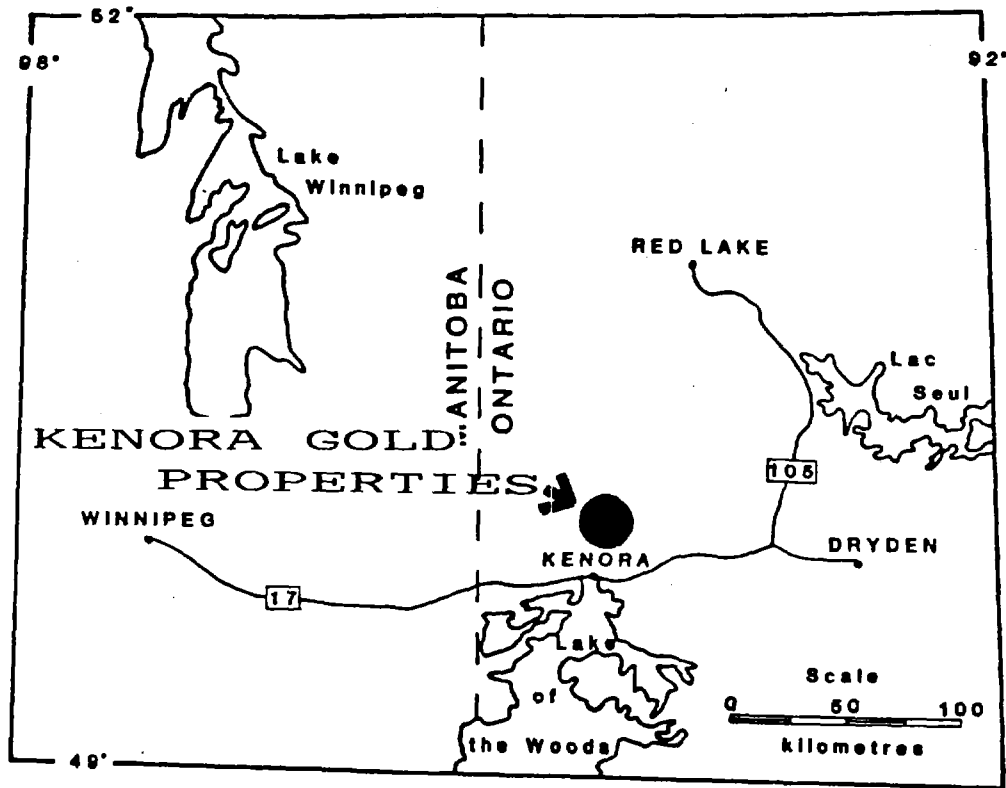


FIGURE 1: LOCATION OF KENORA GOLD INC. PROPERTIES

3.0 ACCESS, CLIMATE AND LOCAL RESOURCES

Access to the property is excellent. The Trans-Canada highway (Highway 17) is 6 km southwest of the property which is crossed by an all-weather gravel road. In addition, four-wheel drive tracks and cottage, pipeline and hydro line access roads crisscross the area.

The Kenora airport, with daily jet service to Winnipeg, Thunder Bay and Toronto, is 2 km southwest of the property.

Rail access via the Canadian Pacific Railway is available 2 km south.

Climate is typical of Western Ontario. Snow cover and sub-zero temperatures usually last from November to April or May, followed by summer weather with daily high temperatures averaging 21°C.

Topography is moderately rugged with steep-sided ridges separated by narrow, often swamp filled valleys. Vegetation is mainly secondary growth of poplar, spruce and minor balsam and ash.

Local resources are plentiful. The property is crossed by two natural gas pipelines, fresh water is plentiful and local labour and services are available from Kenora 12 km to the southwest.

4.0 REGIONAL GEOLOGY AND MINERALIZATION

The Kenora district is underlain by rocks of Precambrian age belonging to two geological subprovinces within the Superior Province. The Princess/Black Sturgeon property covers part of a granitic intrusive adjacent to a narrow, northeast -trending wedge of rocks of the Wabigoon Subprovince, north of which are gneissic rocks of the English River Subprovince.

Figure 2 illustrates the regional geology of the area. The following description is from Davies, Smith and Blackburn, 1985:

" A wedge-shaped area of volcanic and sedimentary rocks extends northeast from the main body of supracrustal rocks in the vicinity of Kenora. Intensely deformed gneisses lie to the northwest and to the east are granitoid stocks which may be related to the Dryberry batholith. Tholeiitic basalts are overlain by fine-grained intermediate to felsic pyroclastics, which in turn are overlain by clastic sediments. A gabbroic sill lies near the top of the basaltic sequence.

The principal direction of faulting, the weak to strong foliation, and the trace of fold axes are all approximately parallel to wedge boundaries and converge to the northeast. At the northwest side of the wedge mafic rocks are highly deformed and metamorphosed but elsewhere primary features are largely preserved. An oval stock of porphyritic quartz monzonite, which lies on the trace of the Airport Anticline, is only weakly foliated.

All the known volcanic-hosted gold occurrences except one are in basalt and are associated with quartz veins or silicified shears. Fractured and mineralized felsic dykes which lie in sheared basalts have also been investigated. The mineralized zones trend

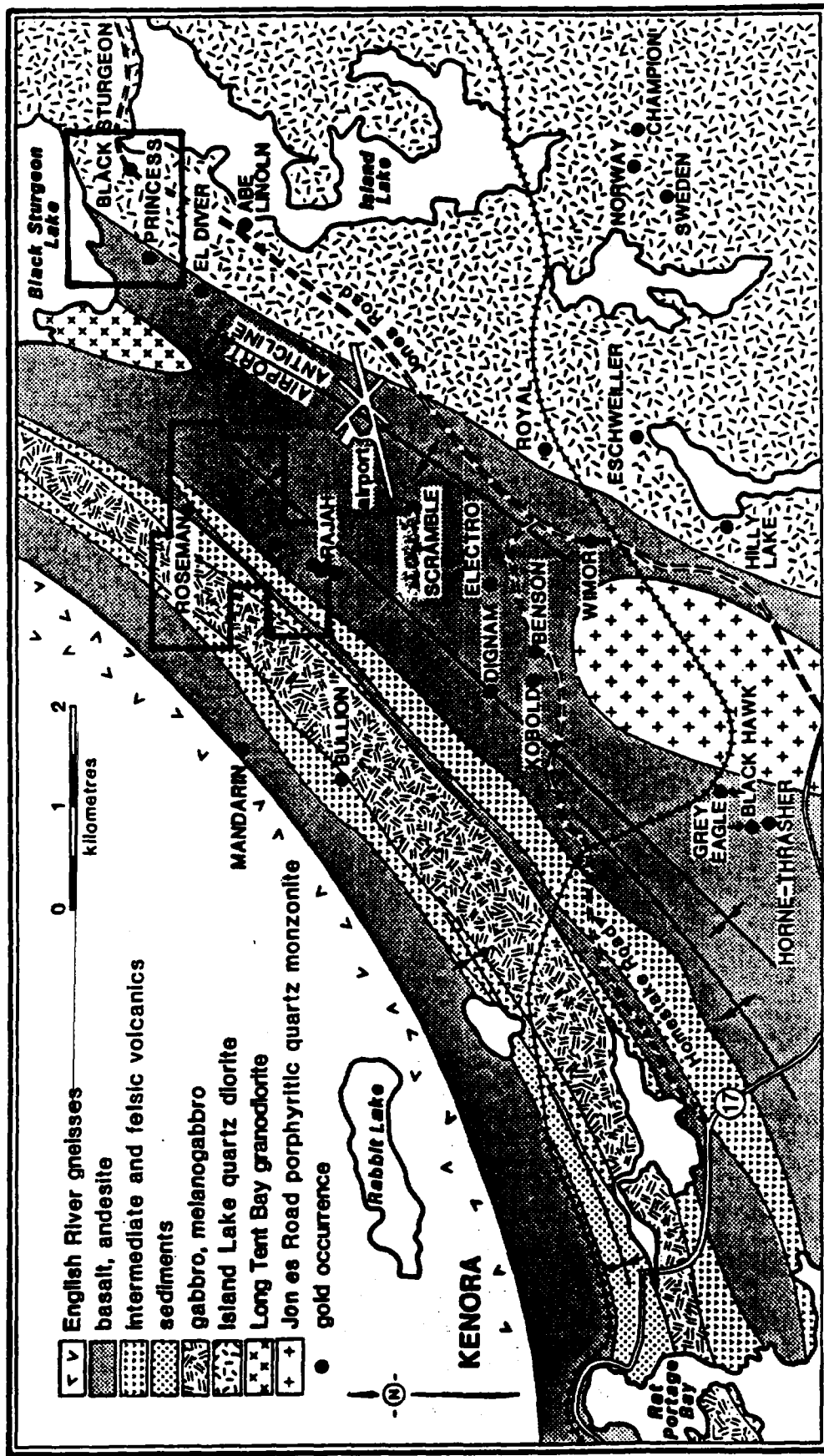


FIGURE 2: THE KENORA GOLD OCCURRENCES INC. PROPERTIES- REGIONAL GEOLOGY AND GOLD SHOWINGS (AFTER KING, 1983).

northeast and are interpreted to be related to movement along near-vertical axial planar shears. Tourmaline and minor sulphides are associated with most quartz veins; chlorite, biotite, carbonate and sulphides are common in the sheared basalt.

Gold occurrences in the Island Lake quartz diorite are associated with shearing. Most of the mineralization is in or near quartz veins which occupy zones of dilatency. Gold is associated with pyrite, especially along minor fractures in the quartz and the host diorite or quartz diorite. Dyke-like bodies of ultramylonite lie near mineralized and silicified shears at these occurrences."

The potential for economic gold mineralization in this area is indicated by the Scramble Prospect. This occurrence, lying directly south of the Kenora Gold Occurrences Inc. Rajah/Roseman property, is being explored underground by Madelaine Mines and Boise Cascade Canada Ltd. Three hundred thousand tons grading 0.3 oz/ton gold is said to have been defined to date.

5.0 HISTORY OF THE PROPERTY

Very little integrated exploration has been done on the property, although gold occurrences have been known and sporadically tested since the 1890's. The following information is from King and Foster, 1983, and assessment files listed in the bibliography:

1896 - Two shafts, 12.8 and 11 meters deep, were sunk on gold-bearing quartz veins at the Black Sturgeon location by Mr. A. Benson, the owner and manager. No grade, tonnage or production are reported.

1897 - At the Princess location, Princess Gold Mining Co. sunk a 19.8 meter shaft on a quartz vein which "showed free gold plentifully" and an unspecified amount of cross-cutting was done to locate the vein, which appeared to pinch out at about 5 meters depth. Some test pitting was done in the area.

1897 to 1898 - A shaft was sunk to 53.4 meters at the Black Sturgeon location. It is not clear if this was a new shaft or deepening of one of the existing ones. Seventeen point one and 25 meters of lateral development were done at the 28 and 52 meter levels, respectively. No grade, tonnage or production are reported.

1920 - "A few hundred dollars" are reported to have been recovered from ore shipped to smelters from the Princess shaft.

1960 - Seven drill holes, totalling 185.4 meters, were drilled by American Yellowknife Mines Ltd.

1983 - The present claim group was staked by G.R.Zeebruck of Kenora.

1985 - Kennco Explorations (Canada) Inc. cut 25 km of grid lines, geologically mapped and sampled the property and did 23 km of magnetic and VLF-EM surveys.

1987 - The property was optioned by Kenora Gold Occurrences Inc.

6.0 1988 EXPLORATION PROGRAM

6.1.0 LINECUTTING

In 1988 a survey grid was cut to cover the Princess/ Black Sturgeon claims (see geophysical maps). The grid consists of a 1.33 km baseline at 48° (mag) and cross-lines at 100 m intervals. All lines were chained and picketed at 12.5 m intervals and a short tie-line cut at 5 + 00 N. The total length of cut line is 47 km.

6.2.0 GEOPHYSICS

The entire grid was covered by gradiometer, total field magnetic and VLF-EM surveys. Procedures and results are detailed in the accompanying geophysical report by F.L.Jagodits of Excalibur International Consultants Ltd.

6.3.0 GEOCHEMISTRY

A geochemical test-survey was conducted to test the viability of this method in detecting the mineralized veins. Two lines of samples were collected across the projected trace of the Black Sturgeon vein to the east of Island Lake. Six humus samples were taken at 10m intervals on line 0+00 between 1+70 S and 2+20 S and 8 samples from a parallel line 25m west, between 1+50 S and 2+20 S. These were analysed for gold by Bondar Clegg and Co. Ltd. of Ottawa using the fire assay/DC plasma method. Analysis method and assay sheets are included in Appendix C.

6.3.1 RESULTS OF GEOCHEMISTRY

A very weak gold anomaly, up to 14 ppb, was detected on both test-lines just south of the projected trace of the Black Sturgeon vein (Map 1). The anomaly is narrow, consistent in width and direction with the vein, and was considered a sufficient target to trench.

6.4.0 TRENCHING

The Black Sturgeon shear was investigated by stripping and sampling along as much strike length as could be feasibly exposed. As the vein crosses Island Lake, stripping was limited to 175' strike length east of the lake (East Zone) and 350' strike length west of the lake (Shaft Zone).

Stripping was done by backhoe and hand-cleaning. Sampling consisted of initial grab sampling and detailed chip sampling. Details of the work are in Appendix D, assay certificates in Appendix C and trench locations shown on Map 4.

6.4.1 RESULTS OF TRENCHING - EAST ZONE

A cross-strike trench on line 0+00 tested the geochemical anomaly and located the Black Sturgeon shear coincident with the anomaly. The shear was stripped along strike until overburden became too deep. Results are shown on Map 5 and sample descriptions given in Appendix B.

The zone strikes at approximately $78^{\circ}(t)$, dips vertically to 75° to the south, and is up to 10' wide. Later cross-faults at approximately $135^{\circ}(t)$ are common and have caused minor

dextral offsets, in the order of a few feet. Contacts between the shear and host rocks are extremely sharp.

The shear is hosted by granodiorite of the Island Lake Stock and consists of highly sheared granodiorite containing chlorite, biotite, carbonate, pyrite, pyrrhotite and chalcopyrite. Within the shear are a number of discontinuous, anastomosing, white quartz veins up to 4' in width. The veins are rusty-weathering, and consist of sugary, fractured quartz with up to 25% Pyrite, pyrrhotite, minor chalcopyrite and traces of molybdenite. Visible gold exists in fractures that parallel the veins.

Initial grab sampling in the trench returned values of up to 13.06 oz/t Au from quartz veins and 0.78 oz/t Au from sheared granodiorite.

Detailed chip sampling was done across the shear at approximately 10' intervals. Results indicate values up to 1.02 oz/t Au over 4.0' width in the quartz veins and 0.09 oz/t Au over 1.1' width in sheared granodiorite. The greatest overall width of mineralization was encountered in channel B (see Map 5) which contains 0.26 oz/t Au over 6.4' width.

6.4.2 RESULTS OF TRENCHING - SHAFT ZONE

The Black Sturgeon shear was exposed over a 350' strike length adjacent to the shaft west of Island Lake. Cleaning of the trench, sampling and geological mapping were interrupted by the onset of freezing conditions and snow cover. Detailed chip sampling was however completed on the main vein over a 250' strike length and grab samples taken from dumps at the shaft.

Results are shown on Map 10 and descriptions of samples given in Appendix B.

Trenching exposed a number of narrow shears striking at approximately 78°(t) hosted by mafic to intermediate volcanics, gabbro and hybrid rocks. The shears contain a number of narrow quartz veins including the Black Sturgeon Main Vein that reaches 2.6' in width, although it pinches and swells along strike. The vein is similar in composition and mineral content to that exposed in the East Zone.

Chip sampling of the main vein and sheared wallrocks gave low gold values up to 0.06 oz/t Au over 1.2' width in the vein and 0.01 oz/t over 1.9' in the sheared granodiorite. Grab samples of vein material from the trench contain up to 0.18 oz/t Au and vein material from the shaft dump up to 0.52 oz/t Au.

6.5.0 DIAMOND DRILLING

Nine drill holes, totalling 1,211', tested the East Zone at depth and eight holes totalling 1,066' were drilled on the Shaft Zone. Two holes totalling 374' tested the Princess occurrence. All holes were BQ size. Details of the contractor are included in Appendix D and drill logs in Appendix A. Locations of drill holes are shown on Map 4 and on the drill sections.

6.5.1 RESULTS OF DRILLING - EAST ZONE

Results of the drill program are shown on Maps 6 to 9 (drill sections) and Map 5 (drill plan). Assay certificates are included in Appendix C.

Drill holes, with the exception of 88-13, were arranged in pairs drilled from the same locations in order to test the shear at two depths. All holes intersected the shear at locations that suggest that it dips between 60° and 90° south. Rocks intersected are essentially the same as those in the trench, consisting of granodiorite, sheared and altered granodiorite and sulphide-bearing quartz veins. Detailed descriptions are given in drill logs included in Appendix A.

All holes, with the exception of 88-5 and 88-6 encountered the Black Sturgeon vein with widths averaging 2.0'. Gold content of the vein is generally lower than on surface, however significant values were intersected in the two westernmost holes 88-13 and 88-14. These are 0.15 oz/t Au over 5.1' and 0.20 oz/t Au over 2.01' respectively. These holes also intersected a second, narrower zone, north of the main shear with 0.02 oz/t Au over 1.3'. Although not economic grade or width, this zone was missed by holes 88-1 to 88-6 and may have potential along strike.

6.5.2 RESULTS OF DRILLING - SHAFT ZONE

At this location, the Black Sturgeon shear was tested at two depths on four sections over 325' strike length. Results are shown on Maps 11 to 14 (drill sections) and Map 10 (drill plan).

Rocks intersected in drilling were similar to those encountered in the trenches, although more gabbro occurs in the westernmost holes. Detailed descriptions are given in the drill logs in Appendix A.

On the two easterly sections (Maps 11 and 12) low gold

values of 0.01 to 0.02 oz/t were intersected over widths averaging 2.0'. However, holes 88-7 and 88-8 on section 15+50 W (Map 13) intersected 0.10 oz/t Au over 1.9' and 0.22 oz/t Au over 2.2' respectively. Hole 88-9 on the westernmost section encountered only trace gold values, however 88-10 was not drilled far enough to intersect the zone.

A second mineralized zone was discovered on the three westernmost sections and contains gold values up to 0.09 oz/t over 3.3'. This is considered important as the holes were collared in mineralization, therefore the true width and grade of the zone are not known.

6.5.3 RESULTS OF DRILLING - PRINCESS OCCURRENCE

Two holes, totalling 374', were drilled 65' apart to test the gold occurrence at the Princess Shaft. Results are shown on Map 15 (drill sections).

Both holes intersected a mafic volcanic sequence containing narrow felsic intrusives. Detailed descriptions of rock types are given in drill logs in Appendix A.

Hole 88-11 did not intersect any alteration or mineralization of interest. Hole 88-12 is similar, however the last 1.4' of the hole is in a calcite vein containing 1% pyrrhotite and 5% magnetite. Assay of the last 2.0' of core returned 0.01 oz/t Au.

The above information suggests that either the Princess Vein pinches out at depth or the holes are not long enough to intersect the vein.

6.6.0 DETAILED GRID AND GEOPHYSICS

The metric grid covering the property is at a poor angle to the Black Sturgeon shear. A more detailed grid at a better angle was considered necessary in order to tie-in trenching and drilling results and as a base for further exploration of the shear.

An 1,800'-long baseline was cut at 78°(t) and cross-lines cut at right angles to this at 200' intervals to cover the Black Sturgeon shear from the road west of the shaft to the property boundary east of the East Zone. The grid was chained and picketed at 50' intervals for a total of 1.63 line-miles. The grid is shown on Map 4. An imperial grid, rather than metric, was constructed as drilling and trench sampling were done in imperial measurements.

The detailed grid was covered by magnetic and VLF-EM surveys in an attempt to define the shear between the Shaft and East Zones, and thus provide targets for further drilling. Results are shown on Maps 2 and 3.

Both surveys were greatly hampered by the proximity of gas pipelines, however the VLF-EM survey indicated a number of weak anomalies coincident with the projected trace of the shear. The magnetic survey indicated a complex series of magnetic anomalies, the significance of which is not known.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Three targets were investigated on the property during 1988; the Princess occurrence, Black Sturgeon Shaft Zone and the East Zone.

Two drill holes tested the Princess occurrence and did not intersect the vein. The possibility exists that these holes were too short, however no further work is recommended on this target at the present time.

Geochemistry, trenching, drilling and sampling on the East Zone of the Black Sturgeon shear has located vein-associated gold mineralization over a 200' strike and to depths of 106'. Measured samples contain gold values up to 1.02 oz/t over widths up to 6.4', and a weighted average of trench chip samples and drill intersections is 0.28 oz/t Au over 3.13'. Both grade and widths of mineralization appear to be strengthening to the west. The possibility of a second mineralized zone to the north of the main shear is indicated by drilling.

Trenching, drilling and sampling of the Black Sturgeon shear at the Shaft Zone encountered similar mineralization to the East Zone, although mineralization is weaker, narrower and more erratic. The best drill intersection is 0.22 oz/t Au over 2.2'. A second mineralized zone, south of the main zone, was intersected in a number of holes. In all cases the holes were collared in mineralization, which reaches 0.09 oz/t Au over 3.13'. As true width and grade of this zone have not been established, it is an obvious target for further work.

It is recommended that the Black Sturgeon shear is targeted for a further drill program to test the strike length between the East and Shaft Zones and the southern mineralization discovered at the Shaft Zone.

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APPENDIX A":
DRILL LOGS

CORRECTION

References to Claim -

728302 should be 899597
728303 should be 899598
728307 should be 899595

Location		Black Sturgeon	Anomaly		East Zone	D.D.H. No.		KGBS-88-1
Coordinates at Collar		279W/016N imp. follow-up 005W/216S metric grid	Azimuth		345°	Dip		-45°
Claim No.		K. 728302	Logged By		W.C. Hood	Start Oct.		9/88
Drilled By		Kenora Soil and Drilling	Core Size		BQ	Finish Oct.		10/88
			Dip Test		-	Page		1 of 2
Footage		GEOLOGY		Sample		Assays		
From	To	No.	From	To	Length	Au	Au	
0	6.0							
6.0	41.7							
41.7	43.5	15532	40.1	41.5	1.4	tr	tr	
43.5	54.3	15533	41.5	43.5	2.0	tr	0.01	
54.3	100.8	15534	43.5	45.4	1.9	tr	0.01	
		15535	45.4	46.5	1.1	tr	tr	
		15536	46.5	47.6	1.1	tr	tr	
		15537	47.6	50.0	2.4	tr	tr	
		15538	50.0	51.9	1.9	tr	tr	
		15539	51.9	54.3	2.4	tr	tr	

CASING: granite & granodiorite boulders.

6.0 GRANODIORITE: medium-grained, light grey, massive to weakly foliated; 65% white to minor pink-orange feldspar, 15% black biotite, 10% green-black amphibole, 5% grey quartz; blocky drilling with rust & weathering along fractures to 24.0; rock is weakly magnetic with disseminated magnetite; more pink k-feldspar in top 20' than rest of section; rare calcite seams with flanking pink-orange potassic alteration; grey quartz vein with pyrite at 33.1-33.2 with minor disseminated pyrite in sheared walls for 0.3' on each side of quartz vein.

41.3-41.7 sheared granodiorite with minor quartz veining; 5% pyrite

43.5 QUARTZ VEIN: white to grey, sugary; frequent biotite schist partings; 3% pyrite overall - generally concentrated along schist partings & fracture surfaces; rare magnetite; top contact at 54.0, lower contact irregular.

43.5 SHEARED GRANODIORITE: medium-grained, light grey, moderately foliated to sheared; frequent narrow quartz veins in sheared sections; minor pink-orange potassic alteration; minor chlorite; fine-grained pink aplite at 52.8-52.9 with contacts at 63°; 2% pyrite overall - concentrated in sheared zones.

54.3 100.8 GRANODIORITE: generally as at 6.0-41.7; minor narrow sheared sections with narrow quartz

Location Black Sturgeon		Anomaly East Zone		D.D.H. No. KGBS-88-1		
Coordinates at Collar 279W/016N imp. follow-up 005W/216S metric grid		Azimuth 345°		Dip -45°		
Claim No. K.728302		Logged By W.C. Hood		Start Oct. 9/88		
Drilled By Kenora Soil and Drilling		Core Size BQ		Finish Oct. 10/88		
Dip Test -				Page 2 of 2		
Footage		Sample			Assays	
From	To	No.	From	To	Length	Au
100.8	107.5					
<p>veinlets, calcite seams, or chloritic slips; frequent irregular zones with pink-orange k-feldspar - primary or alteration?; minor disseminated magnetite throughout; minor pyrite associated with shears.</p> <p>SHEARED GRANODIORITE: medium-grained, grey, foliated to sheared; quartz vein with abundant pyrite at 105.7-105.9 and 106.6-106.8; minor chlorite along seams; 2% pyrite overall - higher near quartz vein; core angle 52° at 105.7.</p> <p>GRANODIORITE: generally as at 54.3-100.8.</p> <p>END OF HOLE</p> <p><i>W.C. Hood</i> William C. Hood, P.Eng.</p>						
107.5	112.0					
112.0						
		15540	100.8	103.0	2.2	tr
		15541	103.0	105.4	2.4	tr
		15542	105.4	107.0	1.6	tr
		15543	107.0	108.0	1.0	tr

Location		Black Sturgeon	Anomaly		East Zone	D.D.H. No.		KGBS-88-2			
Coordinates at Collar		279W/016N imp. follow-up 005W/216S metric grid	Azimuth		345°	Dip		-65°			
Claim No.		K.728302	Logged By		W.C. Hood	Start Oct.		10/88			
Drilled By		Kenora Soil and Drilling	Core Size		BQ	Finish Oct.		11/88			
			Dip Test		-	Page		1 of 2			
Footage		Sample									
		Assays									
From		No.		From		To		Length		Au	
0	5.0	CASING: granite & granodiorite boulders.									
5.0	66.4	GRANODIORITE: medium-grained, light grey, massive to weakly foliated; 65% white feldspar, minor pale pink-orange feldspar, 15% black biotite, 10% green-black amphibole, 5% grey quartz; blocky drilling with rust & weathering along fractures to 21.0; frequent pink-orange k-feldspar to 21.0; rock is weakly magnetic with minor disseminated magnetite; minor pink aplitic stringers; minor sheared sections (generally less than 1.0' thick); sheared sections often have quartz, calcite, or chlorite, with occasional pyrite.									
66.4	76.6	SHEARED GRANODIORITE: medium-grained, light grey, moderately foliated to sheared; minor quartz veins with local pyrite at 67.9-68.1 and 75.4-75.5; silicified at 74.5-75.4; minor fracture fillings with chlorite, biotite, and pyrite; 2% pyrite overall - concentrated in sheared sections.									
76.6	81.5	QUARTZ VEIN: white to light grey, sugary; minor biotite schist partings & seams; 2% pyrite overall - mostly associated with biotite schist partings; top contact at 58°, lower contact at 55°.									
81.5	88.8	SHEARED GRANODIORITE: mostly medium-grained, grey, varies from weakly foliated to sheared; relatively unshattered sections at 82.4-83.9 and 85.3-86.9; minor chlorite;									
		15544	66.3	67.3	1.0						tr
		15545	67.3	68.4	1.1						tr
		15546	68.4	70.4	2.0						tr
		15547	70.4	72.5	2.1						tr
		15548	72.5	74.5	2.0						tr
		15549	74.5	75.6	1.1						0.01
		15550	75.6	76.6	1.0						tr
		15551	76.6	79.0	2.4						0.02
		15552	79.0	81.5	2.5						tr
		15553	81.5	82.5	1.0						0.06
		15554	82.5	83.8	1.3						0.02
		15555	83.8	85.3	1.5						tr
		15556	85.3	86.9	1.6						tr

Location Black Sturgeon		Anomaly East Zone		D.D.H. No. KGBS-88-3		
Coordinates at Collar 242W/024S imp. follow-up 006W/233S metric grid		Azimuth 345°		Dip -45°		
Claim No. K.728302		Logged By W.C. Hood		Start Oct. 12/88		
Drilled By Kenora Soil and Drilling		Core Size BQ		Finish Oct. 13/88		
Dip Test -		Page 2 of 2				
Footage		Sample			Assays	
From	To	No.	From	To	Length	Au
108.8	117.0	15567	105.3	107.8	2.5	tr
		15568	107.8	108.8	1.0	tr
<p>GEOLOGY</p> <p>carbonatized epidotized granodiorite schist at 101.3-101.9; quartz vein at 108.2-108.3 with biotite-chlorite walls and core angle at 30°; minor chloritization of mafic minerals; fairly pervasive potassic alteration throughout.</p> <p>108.8 117.0 GRANODIORITE: as at 16.0-89.9.</p> <p>117.0 END OF HOLE</p> <p><i>William C. Hood</i></p> <p>William C. Hood, P.Eng.</p>						

Location		Black Sturgeon		Anomaly		East Zone		D.D.H. No.		KGBS-88-4	
Coordinates at Collar		242W/024S imp. follow-up 006W/233S metric grid		Azimuth		345°		Dip		-65°	
Claim No.		K.728302		Logged By		W.C. Hood		Start		Oct. 13/88	
Drilled By		Kenora Soil and Drilling		Core Size		BQ		Finish		Oct. 14/88	
Footage		From		To		Sample		No.		Length	
		From		To						Assays	
0	13.0	<p>CASING: granite & granodiorite boulders.</p>									
13.0	110.1	<p>GRANODIORITE:</p> <p>13.0-30.0 medium-grained, pink-grey, foliated to sheared; this section is more sheared & altered than at 30.0-85.4; 65% pink-orange feldspar, 15% black biotite, 10% green-black amphibole, 5% grey quartz; rock is weakly magnetic with disseminated magnetite; pink aplite at 13.1-13.2; grey altered section with 2% disseminated pyrite at 15.6-16.3 centered on quartz veinlet at 15.8; sheared section with minor quartz-calcite veining 23.1-24.2; pink altered section with 2% disseminated pyrite at 27.8-28.2 with pink potassic alteration flanking quartz-calcite at 28.0-28.1.</p> <p>30.0-85.4 medium-grained, grey, massive to weakly foliated; 65% grey to minor pink-orange feldspar, 15% black biotite, 10% green-black amphibole, 5% grey quartz; rock is weakly magnetic with disseminated magnetite; minor narrow fractures, seams, & shears with chlorite + calcite + quartz + pyrite.</p> <p>85.4-110.1 as at 30.0-85.4 but with frequent patches & zones (often fracture controlled) of pink-orange potassic alteration and chloritic alteration with minor disseminated pyrite; inclusions of finer-grained, darker, altered phase at 96.5-97.1 and 100.6-101.1;</p>									

Location		Black Sturgeon		Anomaly East Zone		D.D.H. No. KGBS-88-4		
Coordinates at Collar		242W/024S imp. follow-up 006W/233S metric grid		Azimuth 345°		Dip -65°		
Claim No. K.728302		Logged By W.C. Hood		Start Oct. 13/88		Finish Oct. 14/88		
Drilled By Kenora Soil and Drilling		Core Size BQ		Dip Test -		Page 2 of 3		
Footage		GEOLOGY		Sample		Assays		
From	To			No.	From	To	Length	Au
110.0	115.3	<p>½" thick seam of grey quartz, chlorite, & calcite with core angle 15° at 106.4; narrow pink aplite seams with core angle 54° at 109.4 and 109.7.</p> <p>SHEARED GRANODIORITE: medium grained, grey to locally pinkish-orange, veins from weakly foliated to sheared; strongly sheared & silicified with 5% disseminated pyrite at 110.2-111.2; minor quartz stringers, potassic alteration, and fracture controlled chloritization & silicification; 2% disseminated pyrite overall.</p>		15606 15607 15608	109.9 112.3 114.3	112.3 114.3 115.3	2.4 2.0 1.0	tr tr tr
115.3	117.3	<p>QUARTZ VEIN/SHEARED SILICIFIED GRANODIORITE:</p> <p>115.3-115.7 white to grey mottled quartz vein with minor chlorite-biotite partings; pyrite stringers near walls; top contact at 40°, lower contact at 57°.</p> <p>115.7-116.1 dark grey sheared silicified granodiorite with 8% disseminated & fracture controlled pyrite.</p> <p>116.1-116.2 grey quartz vein with core angle 51°.</p> <p>116.2-116.5 sheared silicified granodiorite with 8% pyrite.</p> <p>116.5-117.3 mixture of grey quartz vein with pyrite and sheared silicified granodiorite with pyrite; 10% pyrite in this section.</p>		15609	115.3	117.3	2.0	0.08
117.3	148.0	<p>GRANODIORITE: generally as at 30.0-85.4;</p>		15610	117.3	118.3	1.0	tr

Location Black Sturgeon		Anomaly East Zone		D.D.H. No. KGBS-88-4	
Coordinates at Collar 242W/024S imp. follow-up 006W/233S metric grid		Azimuth 345°		Dip -65°	
Claim No. K.728302		Logged By W.C. Hood		Start Oct. 13/88	
Drilled By Kenora Soil and Drilling		Core Size BQ		Finish Oct. 14/88	
Dip Test -		Page 3		of 3	
Footage		Sample		Assays	
From	To	No.	From	To	Length
148.0	END OF HOLE				
<p>narrow shear with disseminated pyrite at 122.5-122.9; pink aplites + minor quartz veining at 128.5-128.6 (core angle 55°), 130.4-130.5 (core angle 50°), & 129.6-129.9 (core angle 50°), plus minor disseminated pyrite in adjacent wallrock. Very minor potassic alteration.</p> <p>148.0 END OF HOLE</p> <p><i>William C. Hood</i> William C. Hood, P.Eng.</p>		15611	132.2	133.0	0.8
					tr

Location		Black Sturgeon		Anomaly		East Zone		D.D.H. No.		KGBS-88-5	
Coordinates at Collar		175W/023S imp. follow-up 009E/248S metric grid		Azimuth		345°		Dip		-45°	
Claim No.		K. 728302		Logged By		W.C. Hood		Start Oct.		14/88	
Drilled By		Kenora Soil and Drilling		Core Size		BQ		Dip Test		-	
Footage				GEOLOGY				Sample		Assays	
From	To					No.	From	To	Length	Au	
0	7.0	CASING: boulder till.									
7.0	93.6	GRANODIORITE: 7.0-31.6 medium-grained, grey, massive to weakly foliated; 65% grey to minor pink-orange feldspar, 15% black biotite, 10% green-black amphibole, 5% grey quartz; rock is weakly magnetic with disseminated magnetite; inclusions of darker finer-grained phase at 20.1-20.6 and 30.6-30.9; minor pink potassic alteration; minor chloritic seams.									
		31.6-51.6 generally as at 7.0-31.6, but with frequent areas of pink potassic alteration and weak shearing; minor seams with chlorite + quartz + calcite; grey calcite vein at 48.2 - 48.5; minor epidote; trace pyrite; core angle 35° at 36.5.									
		51.6-93.6 generally as at 7.0-31.6; sheared at 66.1-67.0 with narrow quartz vein at 66.1; minor local potassic alteration increasing overall to bottom of section; narrow pink aplite at 80.0; shear zones at 81.5-82.3 and 86.9-88.1 with minor silicification, chloritization, potassic alteration, and pyrite mineralization.									
93.6	97.0	SHEARED GRANODIORITE: medium-grained, grey, alternates between sheared and moderately foliated; sheared sections have up to 3% disseminated pyrite.				15614	95.9	97.0	1.1		tr

Location Black Sturgeon		Anomaly East Zone		D.D.H. No. KGBS-88-5		
Coordinates at Collar 175W/023S imp. follow-up 009E/248S metric grid		Azimuth 345°		Dip -45°		
Claim No. K.728302		Logged By W.C. Hood		Start Oct. 14/88		
Drilled By Kenora Soil and Drilling		Core Size BQ		Finish Oct. 15/88		
Dip Test -		Page 2 of 2				
Footage		Sample			Assays	
From	To	No.	From	To	Length	Au
97.0	99.3	15615	97.0	99.5	2.5	tr
99.3	103.0	15616	99.5	100.5	1.0	tr
		15617	100.5	102.6	2.1	tr
103.0	117.0	15618	110.6	111.6	1.0	tr
	117.0					
<p>GEOLOGY</p> <p>97.0 99.3 QUARTZ VEIN: grey to white; crudely banded "crack & seal" structure with narrow bands/partings of chlorite and/or biotite schist with pyrite near wall of vein; 3% pyrite; top contact at 530, lower contact at 580.</p> <p>99.3 103.0 SHEARED GRANODIORITE: medium-grained, grey, moderately foliated; sheared & silicified with pyrite at 99.3-99.5; narrow quartz vein at 101.6; increasingly sheared near inclusion of finer-grained dark colored phase at 102.3-102.9; minor disseminated pyrite.</p> <p>103.0 117.0 GRANODIORITE: generally as at 7.0-31.6; potassic alteration with minor quartz veining at 106.1-106.3; 0.1' zone of potassic alteration with core angle 30° at 102.7-102.8; shear zone with disseminated pyrite at 110.7-111.5 and quartz vein at 111.0-111.2; weak shear at 114.0-115.5.</p> <p>117.0 END OF HOLE.</p> <p style="text-align: right;"><i>W.C. Hood</i> William C. Hood, P.Eng.</p>						

Location		Black Sturgeon		Anomaly East Zone		D.D.H. No. KGBS-88-6			
Coordinates at Collar		175W/023S imp. follow-up 009E/248S metric grid		Azimuth 345°		Dip -65°			
Claim No. K.728302		Logged By W.C. Hood		Start Oct. 15/88		Finish Oct. 15/88			
Drilled By Kenora Soil and Drilling		Core Size BQ		Dip Test -		Page 1 of 3			
Footage		GEOLOGY		Sample		Assays			
From	To	No.	From	To	Length	AU			
0	5.0								
5.0	123.3								
			<p>CASING: boulder till</p> <p>GRANODIORITE:</p> <p>5.0-55.7 medium-grained, grey, massive to weakly foliated; 65% grey (minor pink-orange) feldspar, 15% black biotite, 10% green-black amphibole, & 5% grey quartz; rock is weakly magnetic with disseminated magnetite; minor small altered inclusions of darker finer-grained phase; minor seams & fractures with chlorite + calcite + pyrite; minor pink-orange potassic alteration.</p> <p>55.7-123.3 more altered than at 5.0-55.7; medium-grained, grey to pinkish-grey, massive to moderately foliated; fairly pervasive weak potassic alteration; frequent seams & fracture fillings with chlorite + calcite + quartz; minor epidote at 56.4-57.5; dark fine-grained inclusion at 57.9-58.3; quartz-calcite-pyrite vein with core angle 33° at 52.9-53.2; irregular calcite + quartz veining/patches at 102.8-104.1; calcite-chlorite vein (up to 0.05' thick) extends along core at 105.0-106.8; narrow pink aplite at 111.6 flanked by shearing, calcite veining, potassic alteration, & epidote alteration to 112.4; quartz vein with chlorite, amphibole, & biotite at 114.9-115.3</p>						
123.3	136.1								
			<p>SHEARED GRANODIORITE:</p> <p>123.3-128.3 alternating sheared and unsheared</p>						
		15625	123.3	126.0	2.7	tr			

Location		Black Sturgeon		Anomaly		East Zone		D.D.H. No.		KGBS-88-6	
Coordinates at Collar		175W/023S imp. follow-up 009E/248S metric grid		Azimuth		345° <th colspan="2">Dip</th> <td colspan="2">-65°</td>		Dip		-65°	
Claim No.		K.728302		Logged By		W.C. Hood		Start		Oct. 15/88	
Drilled By		Kenora Soil and Drilling		Core Size		BQ		Finish		Oct. 15/88	
Footage		To		Dip Test		-		From		To	
From		To		GEOLOGY		Sample		No.		Length	
										Au	
136.1	138.0	QUARTZ VEIN/GRANITE APLITE:		sections; sheared sections with 2% disseminated pyrite at 124.4-125.3 and 126.7-127.3 centered on quartz veined/silicified zones.		15626	126.0	128.5	2.5		tr
		128.3-136.1 heavily sheared section with minor quartz veining, chlorite seams & alteration and calcite-filled fractures; increasing pink-orange potassic alteration toward bottom of section; 2% disseminated pyrite overall; core angle 45° at 134.8.		15627	128.5	130.5	2.0				tr
				15628	130.5	132.5	2.0				tr
				15629	132.5	134.2	1.7				tr
				15630	134.2	135.9	1.7				tr
136.1	138.0	SHEARED/ALTERED GRANODIORITE:		136.1-136.5 grey quartz vein with chlorite partings & epidote; minor pyrite.		15631	135.9	138.1	2.2		tr
		136.5-136.7 potassic altered granodiorite with 4% pyrite.									
		136.7-136.8 grey quartz vein.									
		136.8-136.9 fine-grained pink aplite or potassic alteration.									
		136.9-137.4 grey quartz vein with irregular partings of chlorite/biotite schist; minor pyrite; top contact at 42°.									
		137.4-138.0 silicified pink aplite (?) with chlorite/biotite partings; 2% disseminated pyrite.									
138.0	148.0	SHEARED/ALTERED GRANODIORITE:		138.0-139.2 sheared, potassic altered granodiorite with 1% pyrite.		15632	138.1	139.2	1.1		tr

Location Black Sturgeon		Anomaly East Zone		D.D.H. No. KGBS-88-6	
Coordinates at Collar 175W/023S imp. follow-up 009E/248S metric grid		Dip -65°		Depth 148'	
Claim No. K.728302		Logged By W.C. Hood		Finish Oct. 15/88	
Drilled By Kenora Soil and Drilling		Core Size BQ		Dip Test -	
Footage		Sample		Assays	
From	To	No.	From	To	Length
	139.2-148.0				
	148.0				
<p>GEOLOGY</p> <p>139.2-148.0 generally as at 55.7-123.3 with potassic alteration, epidote alteration, & carbonatization; minor quartz veining.</p> <p>148.0 END OF HOLE.</p> <p><i>W.C. Hood</i> William C. Hood, P.Eng.</p>					

Location		Black Sturgeon		Anomaly Shaft Zone		D.D.H. No. KGBS-88-7	
Coordinates at Collar		1556W/071N imp. follow-up 270W/023N metric grid		Azimuth 345°		Dip -45°	
Claim No. K.728303		Logged By W.C. Hood		Start Oct. 16/88		Finish Oct. 17/88	
Drilled By Kenora Soil and Drilling		Core Size BQ <th colspan="4">Dip Test -</th>		Dip Test -			
Footage		GEOLOGY		Sample		Assays	
From	To	No.	From	To	Length	Au	
0	6.0						
6.0	9.8						
9.8	73.0						
73.0	73.8						
73.8	75.4						

No.	From	To	Length	Au
15763	6.5	8.1	1.6	0.16
15764	8.1	9.8	1.7	0.02
15569	73.0	73.6	0.6	tr
15570	73.6	75.5	1.9	0.10

0 CASING: boulder till.

6.0 9.8 SHEARED DIORITE: medium-grained, grey, foliated to sheared; alternating zones of weakly foliated & strongly sheared sections; minor silicification at 7.0-7.5; minor pyrite stringers at 8.5-8.9; core angle 63° at 7.4.

9.8 73.0 DIORITE:

9.8-37.0 medium-grained, grey, massive to locally foliated; 60% grey plagioclase, 20% black-green amphibole, 15% black biotite; plagioclase-biotite vein/dike with minor pyrite at 15.7-15.8; grain size decreases in foliated zones; rare disseminated pyrite.

37.0-43.2 grey to pinkish-grey section with fairly pervasive potassic alteration; minor epidote alteration; pink aplites at 37.3-37.6 (core angle 67°), 38.-1-38.3 (core angle 67°), & 39.1-39.2 (core angle 68°).

43.2-73.0 as at 9.8-37.0.

73.0 73.8 SHEARED DIORITE: gradual increase in shearing, silicification, & pyrite content to vein contact at 73.8.

73.8 75.4 QUARTZ VEIN: grey to white banded quartz vein showing "crack & seal" structure; numerous partings & seams of chlorite/biotite schist and altered diorite; 5% pyrite & pyrrhotite concentrated along schist partings; core angle 58° at 75.2.

Location		Black Sturgeon		Anomaly Shaft Zone		D.D.H. No. KGBS-88-7	
Coordinates at Collar		1556W/071N imp follow-up 270W/023N metric grid		Azimuth 345°		Dip -45°	
Claim No		K.728303		Logged By W.C. Hood		Start Oct. 16/88	
Drilled By		Kenora Soil and Drilling		Core Size BQ		Finish Oct. 17/88	
Footage				Dip Test -		Page 2 of 2	
From	To	GEOLOGY		Sample		Assays	
		No.		From	To	Length	Au
75.4	80.7	15571 15572 15573	SHEARED DIORITE: grey, fine- to medium-grained, foliated to sheared; overall decrease in shearing to bottom of section; shearing, alteration, & up to 3% pyrite mineralization are concentrated in zones of 0.1 to 0.5' flanking narrow quartz veins at 76.7, 77.1, 78.5, & 80.5; intervening areas are foliated diorite with minor disseminated pyrite; core angle 69° at 80.5.	75.5 77.2 78.9	77.2 78.9 80.7	1.7 1.7 1.8	tr 0.06 tr
80.7	94.0	15574	DIORITE: generally as at 9.8-37.0; sheared section with 2% disseminated pyrite at 92.0-93.0 centered on narrow quartz vein at 92.1; minor disseminated pyrite at 93.9-94.0 near contact.	91.9	94.1	2.2	tr
94.0	96.8		MAFIC INCLUSION OR DIKE: fine-grained, black, weak schistosity; probable volcanic inclusion; minor disseminated pyrite.				
96.8	127.0	15575 15576	DIORITE: generally as at 9.8-37.0; sheared zone with 3% disseminated pyrite at 102.9-103.5 centered on quartz-chlorite-pyrite vein at 103.1-103.2; fine-grained pink-red granite aplite with minor pyrite near edges at 110.5-111.4; irregular grey quartz patch with 1% pyrite at 112.6-113.0; minor pink aplites at 120.5-120.6 and 126.7-126.8; sheared sections with minor quartz veining & pyrite at 124.2-125.2 and 125.9-126.5; core angle 48° at 126.1.	102.6 112.4	103.7 113.4	1.1 1.0	tr tr
127.0	END OF HOLE.			124.1 125.6	125.6 127.0	1.5 1.4	tr tr

William C. Hood
 William C. Hood, P.Eng.

Location		Black Sturgeon		Anomaly		Shaft Zone		D.D.H. No. KGBS-88-8									
Coordinates at Collar		156W/071N imp. follow-up 270W/023N metric grid		Azimuth		345°		Dip		-65°	Depth		148'				
Claim No. K.728303		Logged By		W.C. Hood		Start		Oct. 17/88		Finish		Oct. 18/88		Page		1 of 3	
Drilled By		Kenora Soil and Drilling		Core Size		BQ		Dip Test		-							
Footage		GEOLOGY										Sample		Assays			
From	To											No.	From	To	Length	Au	
0	5.0	CASING: boulder till.															
5.0	13.2	SHEARED DIORITE: 5.0-7.1 sheared diorite with disseminated pyrite centered on quartz stringer with core angle 24° at 6.1. 7.1-9.6 foliated diorite with minor disseminated pyrite; trace epidote. 9.6-10.7 foliated diorite with epidote stringers. 10.7-12.4 foliated diorite. 12.4-13.2 sheared diorite with minor disseminated pyrite & minor epidote, centered on quartz vein at 12.7; core angle 40° at 12.7.										15765	5.0	7.3	2.3	0.02	
13.2	112.7	DIORITE: 13.2-45.2 medium-grained, grey, massive to foliated; 60% grey plagioclase, 20% black-green amphibole, 15% black biotite; 0.05' thick quartz stringer with pyrite along edges extends along core at 16.2-17.0; narrow plagioclase-biotite dikes at 28.2-28.4 and 33.6-33.7. 45.2-78.3 generally as at 13.2-45.2 but with frequent irregular patches & zones of pink-orange potassic alteration; occasional chloritic fractures at low core angle; pink-red granite aplite at 51.5-51.9; two narrow granite aplite stringers in interval at															

Location		Black Sturgeon		Anomaly Shaft Zone		D.D.H. No.		KGBS-88-8		
Coordinates at Collar		156W/O71N imp. follow-up 270W/O23N metric grid		Azimuth 345°		Dip -65°		Depth 148'		
Claim No.		K. 728303		Logged By		W.C. Hood		Start Oct. 17/88		
Drilled By		Kenora Soil and Drilling		Core Size		BQ		Finish Oct. 18/88		
Dip Test								Page 2 of 3		
Footage										
From		To		Sample		No.		Assays		
						From		To		
						Length		AU		
				GEOLOGY						
112.2	114.5	53.4-53.6 are offset to a position at 54.1-54.3 by a narrow fault with a 100 core angle.		78.3-112.2 generally as at 13.2-45.2; occasional narrow shear zones with disseminated pyrite + narrow quartz stringer; red-pink granite aplites at 107.8-108.2 (core angle 40°) and 111.5-112.1.		15595	112.2	113.6	1.4	tr
						15596	113.6	114.5	0.9	tr
114.5	116.4	SHEARED DIORITE: fine- to medium-grained, grey, sheared; minor quartz veining & silicification; minor potassic alteration; gradual increase in disseminated pyrite to vein contact at 114.5; 1% pyrite at 112.2-113.6, but 8% pyrite at 113.6-114.5.				15597	114.5	116.7	2.2	0.22
116.4	121.1	SHEARED DIORITE: fine- to medium-grained, grey, sheared; section is locally silicified and has narrow quartz stringers; pyrite content decreases down section from 7% at 116.7-117.6 to 2% at 117.6-120.9.				15598	116.7	117.6	0.9	tr
						15599	117.6	120.0	2.4	tr
						15600	120.0	120.9	0.9	tr
121.1	124.4	QUARTZ VEIN: white to grey, glassy quartz vein with frequent biotite schist partings; 2% pyrite overall - concentrated along partings; silicified biotite-pyrite schist at 124.1-124.4.				15601	120.9	123.5	2.6	tr
						15602	123.5	124.7	1.2	tr

Location		Black Sturgeon		Anomaly		Shaft Zone		D.D.H. No.		KGBS-88-8	
Coordinates at Collar		156W/07IN imp. follow-up 270W/023N metric grid		Azimuth 345°		Dip -65°		Depth		148'	
Claim No.		K. 728303		Logged By		W.C. Hood		Start Oct.		17/88	
Drilled By		Kenora Soil and Drilling		Core Size		BQ		Finish Oct.		18/88	
Footage				Dip Test		-					
From		To		Sample		Assays					
				No.		From		To		Length	
										Au	
124.4	126.6	<p>GRANITE APLITE: fine-grained, pink-red, weakly foliated; 5% black biotite flakes in pink-red quartzo-feldspathic aplite; biotite flakes impart weak foliation to rock; rare pyrite.</p>									
126.6	140.4	<p>DIORITE: generally as at 13.2-45.2; gradual decrease in shearing/foliation to 131.0; minor shear zone with 1% disseminated pyrite & quartz stringer at 128.7-129.0.</p>									
140.4	144.0	<p>MAFIC INCLUSION OR DIKE: fine-grained, dark grey, weakly schistose; vaguely porphyritic with minor small feldspars & biotite flakes top contact at 380, lower contact at 280.</p>									
144.0	148.0	<p>DIORITE: generally as at 13.2-45.2.</p>									
148.0	END OF HOLE.	<p><i>W.C. Hood</i> William C. Hood, P.Eng.</p>									
		15603	124.7	126.7	2.0	tr					
		15604	126.7	128.8	2.1	tr					
		15605	128.8	131.0	2.2	tr					

Location Black Sturgeon		Anomaly Shaft Zone		D.D.H. No. KGBS-88-9	
Coordinates at Collar 1676W/061N imp. Follow-up 303W/041N metric grid		Azimuth 345°		Dip -45°	
Claim No. K. 728303		Logged By W.C. Hood		Start Oct. 18/88	
Drilled By Kenora Soil and Drilling		Core Size BQ		Finish Oct. 19/88	
		Dip Test -			
Footage		Sample		Assays	
From	To	No.	From	To	Length
GEOLOGY					
0	13.0				
13.0	19.0				
19.0	33.2				
33.2	34.5				
34.5	58.1				
58.1	63.7				
63.7	67.6				
<p>CASING: clay-rich boulder till.</p> <p>DIORITE: medium-grained, grey, massive to weakly foliated; minor pink aplite stringers in interval from 15.1-16.7; trace disseminated pyrite; contact with next unit is gradational over 0.1'.</p> <p>ANDESITE INCLUSION: fine-grained, grey, weakly schistose; weakly porphyritic with numerous elongate mafic clots (biotite-amphibole) up to 1/10".</p> <p>GRANITE DIKE: fine-grained, pink-grey, massive; aplitic; rare disseminated pyrite; top contact irregular, lower contact 51°.</p> <p>ANDESITE INCLUSION: generally as at 19.0-33.2; white granite aplite stringer at 35.7-35.8; pink aplite dike at 48.1-48.3; minor irregular stringers of diorite with gradational contacts; contact with diorite at 58.1 is gradational over 0.1'.</p> <p>DIORITE: generally as at 13.0-19.0; minor inclusions of digested andesite; minor pyrite associated with digested inclusions.</p> <p>ANDESITE INCLUSION: derived from same material as at 19.0-33.2, but highly altered & digested with numerous stringers & patches of diorite; 1% disseminated pyrite; top contact is gradational over 0.2', lower contact fairly sharp at 31°.</p>					

Location		Black Sturgeon		Anomaly Shaft Zone		D.D.H. N ^o		KGBS-88-9																																							
Coordinates at Collar		1676W/061N imp. Follow-up 303W/041N metric grid		Azimuth		345 ^o		Dip		-45 ^o		Depth		147'																																	
Claim N ^o		K. 728303		Logged By		W.C. Hood		Start		Oct. 18/88		Finish		Oct. 19/88		Page		2 of 4																													
Drilled By		Kenora Soil and Drilling		Core Size		BQ		Dip Test		-																																					
Footage																																															
From		To																																													
67.6				96.4				DIORITE:																																							
								67.6-90.7 medium-grained, grey, massive to weakly foliated; minor inclusions of digested andesite; stringers of white granitic material at 71.7; trace pyrite generally associated with digested inclusions or fractures.																																							
								90.7-96.4 weakly foliated section with 1% disseminated pyrite; white glassy quartz vein at 92.0-92.4 with irregular contacts.																																							
								96.4				97.7				SHEARED DIORITE: increasingly sheared & silicified with up to 6% pyrite to quartz vein contact at 97.7.																															
								97.7				98.9				QUARTZ VEIN: grey banded, sheared quartz vein with numerous partings of biotite schist with 4% pyrite; top contact at 43 ^o , lower contact at 45 ^o .																															
								98.9				102.5				SHEARED ALTERED DIORITE:																															
																98.9-99.9 fine-grained, grey, sheared, silicified diorite with 4% fine-grained disseminated pyrite.																															
																99.9-102.5 moderately sheared but heavily altered; pervasive chloritic & potassic alteration give rock a relic porphyritic texture with white to pink potassic altered feldspars in a foliated chloritic matrix; minor stringers of pink K-feldspar; 1% disseminated pyrite.																															
																15580				90.7				91.7				1.0				tr															
																15581				91.7				92.7				1.0				tr															
																15582				92.7				94.5				1.8				tr															
																15583				94.5				96.4				1.9				tr															
																15584				96.4				97.4				1.0				tr															
																				15585				97.4				99.0				1.6				tr											
																								15586				99.0				100.0				1.0				tr							
																												15587				100.0				102.5				2.5				tr			

Location		Black Sturgeon		Anomaly		Shaft Zone		D.D.H. No. KGBS-88-9			
Coordinates at Collar		1676W/061N imp; follow-up 303W/041N metric grid		Azimuth		345°		Dip		-45°	
Claim No.		K.728303		Logged By		W.C. Hood		Start		Oct. 18/88	
Drilled By		Kenora Soil and Drilling		Core Size		BQ		Finish		Oct. 19/88	
Footage		From		To		Sample		Length		Assays	
		From		To		No.		From		To	
		From		To		No.		From		To	
102.5	103.7	<p>GRANITIC PEGMATITE: coarse-grained, white to pink; brecciated; 60% white to pink K-feldspar, 30% quartz, 10% biotite; minor pyrite.</p> <p>SHEARED ALTERED DIORITE: generally as at 98.9-102.5, but with minor irregular stringers of white, fine- to medium-grained granite and pink aplitic granite; narrow quartz vein with core angle 30° at 107.4 cuts potassic alteration.</p> <p>SHEARED DIORITE:</p> <p>108.0-111.4 medium-grained, grey, foliated; weakly sheared section with minor disseminated pyrite.</p> <p>111.4-114.6 fine-grained, grey, sheared; heavily sheared silicified section with frequent narrow quartz veins in section at 112.9-114.3; core angle 56° at 113.8.</p> <p>DIORITE: medium-grained, grey, generally foliated; partly digested inclusion with disseminated pyrite at 114.6-115.1; 0.5' wide pyritic shear zones centered on narrow quartz veins at 121.3 and 122.9; slightly sheared with minor volcanic inclusions at 124.3-124.9.</p> <p>BASALT INCLUSION: fine-grained, dark grey, schistose; minor fine-grained disseminated pyrite; contacts at 45°.</p>									
103.7	108.0	15588	102.5	103.7	1.2	tr					
108.0	114.6	15589	103.7	105.9	2.2	tr					
		15590	105.9	108.0	2.1	tr					
		15591	108.0	111.3	3.3	tr					
		15592	111.3	112.9	1.6	tr					
		15593	112.9	114.6	1.7	tr					

Location		Black Sturgeon		Anomaly Shaft Zone		D.D.H. No. KGBS-88-9	
Coordinates at Collar		1676W/061N imp. follow-up 303W/041N metric grid		Azimuth 345°		Dip -45°	
Claim No. K.728303		Logged By W.C. Hood		Start Oct. 18/88 <th colspan="2">Finish Oct. 19/88 </th>		Finish Oct. 19/88	
Drilled By Kenora Soil and Drilling		Core Size BQ		Dip Test -			
Footage		GEOLOGY		Sample		Assays	
From	To	No.	From	To	Length	AU	
126.5	134.3						
<p>ALTERED DIORITE: medium-grained, grey, massive to foliated; white feldspathic alteration of prominent feldspars gives rock a slightly porphyritic appearance; frequent irregular stringers of white granitic material; minor digested inclusions; minor quartz stringers; trace pyrite.</p>							
134.3	137.0	15594	134.3	136.4	2.1	tr	
<p>SHEARED DIORITE/VOLCANIC INCLUSIONS: fine- to medium-grained, grey to green-grey, schistose; sheared, locally silicified, slightly chloritic/biotitic mixture of mafic volcanic inclusions and diorite; minor white feldspathic and quartz stringers; 1% disseminated pyrite.</p>							
137.0	147.0						
<p>DIORITE: medium-grained, grey, massive to foliated; minor digested volcanic inclusions; minor small shears + quartz veining + minor pyrite.</p>							
147.0							
<p>END OF HOLE.</p>							
<p><i>W.C. Hood</i> William C. Hood, P.Eng.</p>							

Location		Black Sturgeon		Anomaly		Shaft Zone		D.D.H. №		KGBS-88-10	
Coordinates at Collar		1676W/061N imp. follow-up 303W/041N metric grid		Azimuth 345°		Dip -65°		Depth		158'	
Claim №		K.728303		Logged By		W.C. Hood		Start		Oct. 19/88	
Drilled By		Kenora Soil and Drilling		Core Size		BQ		Finish		Oct. 20/88	
Dip Test										Page 1 of 3	
Footage				GEOLOGY		Sample		Assays			
From	To	Nº	From	To	Length	Au					
0	10.5										
10.5	13.1	15679	10.5	13.2	2.7	0.01	<p>CASING: clay-rich boulder till.</p> <p>SHEARED DIORITE: medium-grained, grey, schistose; sheared section with frequent irregular stringers of white granitic material; 3% pyrite & pyrrhotite - both disseminated and along granitic stringers; core angle 44° at 12.0.</p>				
13.1	26.0	15680 15681	13.2 15.1	15.1 17.5	1.9 2.4	0.06 tr	<p>DIORITE:</p> <p>13.1-19.0 medium-grained, grey, foliated; weakly altered with white potassic alteration giving rock a slightly porphyritic appearance; minor disseminated pyrite & pyrrhotite throughout, but locally coarse pyrrhotite along fractures; sheared granite dike at 17.7-18.1 with core angle 37°.</p> <p>19.0-26.0 medium-grained, grey, massive to weakly foliated.</p>				
26.0	31.1						<p>ANDESITE/BASALT INCLUSION: fine-grained, grey, schistose; locally altered & partly digested; minor granitic dikes at 26.9-27.0 and 29.6-29.7.</p>				
31.1	32.8						<p>DIORITE: as at 19.0-26.0.</p>				
32.8	41.4						<p>ALTERED ANDESITE/BASALT INCLUSION: generally fine-grained, grey, schistose; frequent irregular stringers & patches of medium-grained diorite; trace pyrite.</p>				
41.4	53.9	15682	41.5	42.8	1.3	tr	<p>DIORITE: medium-grained, grey, massive to weakly foliated; narrow quartz-chlorite-pyrite seam with core angle 19° at 42.1.</p>				

Location		Black Sturgeon		Anomaly Shaft Zone		D.D.H. N ^o .		KGBS-88-10										
Coordinates at Collar		1676W/061N imp; follow-up 303W/041N metric grid		Azimuth		345 ^o		Dip		-65 ^o		Depth		158'				
Claim N ^o		K. 728303		Logged By		W.C. Hood		Start Oct.		19/88		Finish Oct.		20/88				
Drilled By		Kenora Soil and Drilling		Core Size		BQ		Dip Test		-		Page		2 of 3				
Footage		GEOLOGY										Sample		Assays				
From	To											N ^o .	From	To	Length	Au		
53.9	56.5	GRANITE DIKE: fine- to medium-grained, pink, weak foliation; consists of pink K-feldspar, quartz, & biotite; minor disseminated pyrite; top & lower contacts at 430.																
56.5	62.8	DIORITE: medium-grained, massive to weakly foliated; minor volcanic inclusions.																
62.8	71.5	ALTERED ANDESITE/BASALT INTRUSION: generally as at 32.8-41.4; about 1% disseminated pyrite throughout.										15683	62.8	67.1	4.3	tr		
71.5	72.4	GRANITE DIKE: as at 53.9-56.5.										15684	67.1	71.5	4.4	tr		
72.4	77.3	CONTAMINATED DIORITE: fine- to medium-grained, grey, foliated; diorite contaminated by digested volcanic inclusions, resulting in very irregular texture; pink granite dike with core angle 50 ^o at 75.3-75.4; 1% disseminated pyrite.										15685	72.4	76.7	4.3	tr		
77.3	90.5	DIORITE: medium-grained, grey, massive to weakly foliated; minor digested volcanic inclusions; minor pyritic shear with narrow quartz vein at 80.7-80.9.																
90.5	145.5	CONTAMINATED/ALTERED DIORITE: medium- to coarse-grained, generally grey to pinkish-grey, foliated; very "blotchy" altered looking section; this unit has resulted either from magma mixing between diorite/gabbro and granite or extensive hydrothermal potassic alteration of diorite/gabbro; has a very "blotchy" texture with irregular mafic clots, prominent white to pink potassic altered (?) feldspars, and irregular medium-grained quartzo-feldspathic stringers &										15686	93.6	96.0	2.4	tr		
												15687	116.4	120.4	4.0	tr		

Location Black Sturgeon		Anomaly Shaft Zone		D.D.H. No. KGBS-88-10	
Coordinates at Collar 1676W/061N imp; follow-up 303W/041N metric grid		Azimuth 345°		Dip -65°	
Claim No. K. 728303		Logged By W.C. Hood		Start Oct. 19/88	
Drilled By Kenora Soil and Drilling		Core Size BQ		Finish Oct. 20/88	
		Dip Test -		Page 3 of 3	

Footage		No.	Sample		Assays	
From	To		From	To	Length	Au
GEOLOGY						
145.5	151.1					
<p>patches; frequent patches with light green epidote - disseminated & in stringers; occasional fracture controlled coarse pyrrhotite (e.g. at 95.1 and 117.4); coarse-grained brecciated white granitic pegmatite at 103.9-104.2; pink granite dike at 105.7-105.8; medium- to coarse grained granitic patch at 130.0-130.5.</p> <p>SHEARED DIORITE: fine- to medium-grained, grey, foliated; weakly sheared section with less alteration (?) than at 90.5-145.5; 1% disseminated pyrrhotite throughout.</p> <p>DIORITE: medium-grained, grey, foliated; generally as at 77.3-90.5.</p> <p>END OF HOLE.</p>						
151.1	158.0	15688	145.2	149.1	3.9	tr
		15689	149.1	151.1	2.0	tr

W.C. Hood

William C. Hood, P.Eng.

Location Princess		Anomaly Shaft		D.D.H. No. KGPS-88-11		
Coordinates at Collar 1125W/605N metric grid		Azimuth 150°		Dip -45°		
Claim No. K. 728307		Logged By W.C. Hood		Finish Oct. 22/88		
Drilled By Kenora Soil and Drilling		Core Size BQ		Dip Test -		
Footage		Sample		Assays		
From	To	No.	From	To	Length	Au
0	5.0					
5.0	30.8					
30.8	54.2					
54.2	56.7					
56.7	81.0					
				15690	32.2 36.0 3.8	tr

GEOLOGY

0 CASING: boulders.

5.0 FELSIC SILL: fine-grained, grey, schistose; weakly porphyritic with white feldspar phenocrysts up to 1/10"; minor bleached fractures and feldspathic stringers; basalt inclusions at 28.5-28.9 and 30.0-30.4; felsic sill at 30.4-30.8 is not porphyritic; lower contact at 58°.

30.8 54.2 METABASALT:

30.8-31.9 fine-grained, green-grey, schistose; minor felsic sill stringers and light green (epidote?) patches.

31.9-36.0 pervasive light green (epidote?) alteration with minor quartz lenses & stringers; trace pyrrhotite.

36.0-49.5 very fine- to fine-grained, light green-grey, schistose; probably pillowed; heavily altered section with frequent light green altered seams & patches; zone with calcite & garnet at 36.7-37.1; felsic sill at 40.2-40.7 with core angle 55°.

49.5-54.2 less altered section than at 36.0-49.5; fine-grained, grey, schistose; probable massive flow.

54.2 56.7 FELSIC SILL: generally as at 5.0-30.8; top contact at 48°, lower contact at 49°.

56.7 81.0 METABASALT: very fine- to fine-grained, green-grey, schistose; pillowed flow; pillows

Location		Princess		Anomaly		Shaft		D.D.H. N ^o .		KGPS-88-11	
Coordinates at Collar		1125W/605N metric grid		Azimuth		150 ^o		Dip		-45 ^o	
Claim N ^o .		K. 728307		Logged By		W.C. Hood		Start Oct.		21/88	
Drilled By		Kenora Soil and Drilling		Core Size		BQ		Dip Test		-	
Footage		GEOLOGY									
From	To	Description		N ^o .	From	To	Length	Au	Assays		
81.0	83.1	SHEARED GRANITE SILL: fine- to medium-grained, pink, schistose & sheared; crudely banded with vague layers of K-feldspar, quartz stringers, and zones of relict phenocrysts; trace pyrite; top contact at 63', lower contact at 40'.		15691	78.6	81.0	2.4	tr			
83.1	95.9	METABASALT: fine-grained, grey, schistose; massive flow; fairly even textured but consistently foliated to weakly sheared at 83.1-89.1; pink to grey granite dike at 87.8-88.1; minor disseminated pyrrhotite- especially at 85.0-86.9.		15693	83.1	84.9	1.8	tr			
95.9	97.0	GRANITE SILL: fine- to medium-grained, pink to grey, schistose; slightly porphyritic with feldspar phenocrysts; quartz along contact at 95.9-96.0; top contact at 45', lower contact at 28'.		15694	84.9	87.0	2.1	tr			
97.0	112.7	METABASALT: fine-grained, green-grey, schistose; probable massive flow; pink granitic		15695	87.0	89.1	2.1	tr			

Location		Princess		Anomaly Shaft		D.D.H. No.		KGPS-88-11	
Coordinates at Collar		1125W/605N metric grid		Azimuth 150°		Dip -45°		Depth 167'	
Claim No.		K. 728307		Logged By W.C. Hood		Start Oct. 21/88		Finish Oct. 22/88	
Drilled By		Kenora Soil and Drilling		Core Size BQ		Dip Test -		Page 3 of 4	
Footage				GEOLOGY		Sample		Assays	
From	To					No.	From	To	Length
112.7	117.6			stringers at 99.4-99.6, 100.4-100.5, and 109.3-109.4; minor grey porphyritic granite dikes at 106.0-106.2 and 106.5-106.6; core angle 48° at 105.0. FELSIC SILL: fine-grained, grey, schistose; vaguely porphyritic with small feldspar phenocrysts; minor medium-grained granodiorite patches near bottom of section; basalt inclusions at 116.8-116.9 and 117.0-117.1; top contact at 63°, lower contact at 58°.					
117.6	132.8			METABASALT: very fine- to fine-grained, green-grey; schistose; pillowed flow; pillows marked by elongate patches of interpillow calcite, epidote, & chlorite; selvages are darker color with chlorite + biotite; pink granite dike at 118.4-118.6.					
132.8	134.4			FELSIC SILL: very fine- to fine-grained, light green-grey, schistose; contacts at 60°.					
134.4	139.1			METABASALT: generally as at 117.6-132.8.					
139.1	143.7			GRANITE SILL: fine- to medium-grained, pink-grey, generally foliated, locally schistose; weakly porphyritic with medium-grained white feldspar phenocrysts; abundant black biotite flakes and minor biotite partings; inclusion of metabasalt at 140.7-141.4; top contact irregular, lower contact at 55°.					
143.7	167.0			METABASALT: generally as at 117.6-132.8; grey fine-grained schistose felsic sill at 151.6					

Location Princess		Anomaly Shaft		D.D.H. No. KGPS-88-11	
Coordinates at Collar 1125W/605N metric grid		Azimuth 150°		Dip -45°	
Claim No. K.728307		Logged By W.C. Hood		Finish Oct. 21/88	
Drilled By Kenora Soil and Drilling		Core Size BQ		Dip Test -	
Footage		Sample		Assays	
From	To	No.	From	To	Length
167.0	END OF HOLE.				
<p>GEOLOGY</p> <p>-152.4; grey fine- to medium-grained schistose felsic sill at 161.9-162.3.</p> <p><i>W.C. Hood</i> William C. Hood, P.Eng.</p>					

Location Princess		Anomaly L12W mag. anomaly		D.D.H. No. KGPS-88-12		
Coordinates at Collar 1190W/585N metric grid		Azimuth 150°		Dip -45°		
Claim No. K.728307		Logged By W.C. Hood		Start Oct. 22/88 Finish Oct. 23/88		
Drilled By Kenora Soil and Drilling		Core Size BQ		Dip Test -		
Footage		Sample		Assays		
From	To	No.	From	To	Length	Au
GEOLOGY						
<p>ation; minor talc along schistosity; minor pyrrhotite throughout; core angle 64° at 83.2.</p> <p>83.4-85.5 sheared altered section; includes epidote talc, chlorite, calcite, potassic alteration, & minor silicification; 2% disseminated pyrrhotite.</p> <p>85.5-86.2 grey, sheared, fine- to medium-grained granite.</p> <p>86.2-120.6 generally pillowed flow as at 42.0-56.4; minor grey felsic sills at 91.2-91.3 and 96.6-96.8; minor irregular stringers of pink granite at 120.0-120.6; core angle 63° at 106.1.</p>						
120.6	122.3	15670 15671	83.2 84.8	84.8 86.2	1.6 1.4	tr tr
<p>GRANITE DIKE: fine- to medium-grained, pink, generally foliated; consists of K-feldspar, quartz & biotite; silicified at 120.1-120.5; trace sulphide; top contact irregular, lower contact at 33°.</p>						
122.3	205.6	15672	120.6	122.2	1.6	tr
<p>METABASALT:</p> <p>122.3-126.6 sheared altered section; mostly dark grey talc-biotite-chlorite-calcite alteration with 1% disseminated pyrrhotite.</p> <p>126.6-139.9 very fine- to fine-grained, green-grey, schistose; locally banded with layers of light green epidote, dark green chlorite, and brownish-black biotite; this section</p>						
		15673 15674	122.2 124.3	124.3 126.6	2.1 2.3	0.01 tr

Location Princess		Anomaly L12W mag. anomaly		D.D.H. N° KGPS-88-12		
Coordinates at Collar 1190W/585N metric grid		Azimuth 150°		Dip -45°		
Claim N° K. 728307		Logged By W.C. Hood		Start Oct. 22/88		
Drilled By Kenora Soil and Drilling		Core Size BQ		Finish Oct. 23/88		
Drilled By Kenora Soil and Drilling		Dip Test -		Page 3 of 4		
Footage		Sample			Assays	
From	To	N°	From	To	Length	Au
<p>GEOLOGY</p> <p>is strongly magnetic throughout but contains less than 1% disseminated pyrrhotite, so must be very fine-grained disseminated magnetite throughout; possibly a weak iron formation.</p> <p>139.9-140.3 pink-grey porphyritic granite dike.</p> <p>140.3-141.4 sheared section with dark grey talc-chlorite-calcite alteration; 2% disseminated pyrrhotite.</p> <p>141.4-142.2 unusual greenish-grey quartz vein with coarse pegmatitic white K-feldspars & black biotite; 2% pyrrhotite.</p> <p>142.2-147.0 sheared altered section with talc-chlorite-calcite alteration; minor silicification; minor garnet; 3% pyrrhotite.</p> <p>147.0-157.0 very fine- to fine-grained, green-grey, schistose; locally banded with talc, chlorite, or biotite; minor quartz-calcite patches & lenses; less than 1% fine disseminated pyrrhotite throughout; weakly magnetic throughout.</p> <p>157.0-205.6 fine- to medium-grained, grey, foliated throughout; probably all massive flow; local banding & textural variation due to deformation and alteration (chloritization & biotitization); minor granodiorite stringers in intervals at 189.0-190.9 and 196.0-198.6; minor talc-chlorite-</p>						
		15675	140.3	141.3	1.0	tr
		15676	141.3	142.3	1.0	tr
		15677	142.3	144.7	2.4	tr
		15678	144.7	147.0	2.3	tr

Location Princess		Anomaly L12W mag. anomaly		D.D.H. No. KGPS-88-12	
Coordinates at Collar 1190W/585N metric grid		Azimuth 150°		Dip -45°	
Claim No. K.728307		Logged By W.C. Hood		Start Oct. 22/88	
Drilled By Kenora Soil and Drilling		Core Size BQ		Dip Test -	
Footage		Sample		Assays	
From	To	No.	From	To	Length
205.6	207.0	15766	205.02	207.0	2.0
207.0	END OF HOLE.				
<p>GEOLOGY</p> <p>-pyrrhotite shear at 200.5-200.8; minor chlorite-biotite alteration at 205.3-205.6; core angle 53° at 186.8.</p> <p>CALCITE VEIN: fine-grained, grey, foliated; crystalline calcite with 5% black magnetite crystals; 1% pyrrhotite.</p> <p><i>W.C. Hood</i> William C. Hood, P.Eng.</p>					
				Au	
				0.01	

Location		Black Sturgeon		Anomaly		East Zone		D.D.H. No.		KGBS-88-13	
Coordinates at Collar		292W/032N imp. follow-up 004W/210S metric grid		Azimuth		345°		Dip		-45°	
Claim No.		K.728302		Logged By		W.C. Hood		Start		Oct. 24/88	
Drilled By		Kenora Soil and Drilling		Core Size		BQ		Finish		Oct. 24/88	
Footage				Dip Test						Page 1 of 2	
From		To		Sample		No.		From		To	
				Length		Au					
0	3.0	CASING: boulder till.									
3.0	19.3	GRANODIORITE: 3.0-18.7 medium-grained, grey to locally pink-grey, massive to weakly foliated; 65% grey (minor pink-orange) feldspar; 15% black biotite, 10% green-black amphibole, 5% grey quartz; rock is weakly magnetic with disseminated magnetite; minor pink-orange potassic alteration - often controlled by fractures; minor rusty weathering along fractures.									
19.3	24.3	18.7-19.3 sheared granodiorite; 1% pyrite									
24.3	30.2	QUARTZ VEIN: white to grey, glassy, locally mottled; locally banded with layers of silicified granodiorite; rusty weathering along fractures; 4% pyrite overall - locally in coarse-grained crystals or bands of fine disseminated grains.									
30.2	81.6	SHEARED GRANODIORITE: fine- to medium-grained, grey, foliated to sheared; alternates between sheared and foliated sections; sheared sections generally 0.5 to 1.0' wide with various combinations of chloritization, pyritization, and potassic alteration centered on central quartz veins (fluid conduits) at 24.7-24.8, 28.1-28.2, and 29.7-29.8.									
81.6	30.2-42.2	GRANODIORITE: medium-grained, grey to pink-grey,									

Location		Black Sturgeon		Anomaly East Zone		D.D.H. No. KGBS-88-13	
Coordinates at Collar		292W/032N imp. Follow-up 004W/210S metric grid		Azimuth 345°		Dip -45°	
Claim No. K. 728302		Logged By W.C. Hood		Start Oct. 24/88		Finish Oct. 24/88	
Drilled By Kenora Soil and Drilling		Core Size BQ		Dip Test -		Page 2 of 2	
Footage		Sample		Assays			
From	To	No.	From	To	Length		
GEOLOGY							
		<p>foliated; foliated to weakly sheared section of the same lithology as at 3.0-19.3; local chloritic alteration and disseminated pyrite concentrated in sheared zones; pink aplite with 2% pyrite at 37.3-37.4 (core angle at 63°) in sheared section at 37.0-37.5; minor pink potassic alteration throughout; sheared section at 41.7-42.2 with calcite, epidote, & minor quartz veining.</p> <p>42.2-59.0 medium-grained, grey to locally pink-grey, massive to weakly foliated; minor inclusions of finer-grained darker phase; minor small shears with quartz or calcite; minor potassic alteration in diffuse patches & zones.</p> <p>59.0-81.6 medium-grained, pink-grey, foliated to sheared; generally as at 42.2-59.0 but with more extensive shearing, pervasive pink potassic alteration, chloritization, and minor pyrite; core angle 53° at 74.0.</p>					
81.6	84.2	15640 15641	81.6 83.0	83.0 84.3	1.4 1.3	tr 0.02	
84.2	107.0	<p>SHEARED GRANODIORITE: fine- to medium-grained, grey, schistose; most intense shearing with minor silicification and 1% pyrite at 81.6-82.0 and 83.0-84.2.</p> <p>GRANODIORITE: generally as at 42.2-59.0, with decreasing potassic alteration down section; silicified potassic altered shears at 87.7-88.1 and 94.0-94.1; trace pyrite.</p>					
107.0		<p>END OF HOLE.</p> <p style="text-align: right;"><i>W.C. Hood</i> William C. Hood, P.Eng.</p>					

Location		Black Sturgeon		Anomaly		East Zone		D.D.H. No.		KGBS-88-14	
Coordinates at Collar		346W/014S imp. follow-up 026W/208S metric grid		Azimuth		345°		Dip		-45°	
Claim No.		K.728302		Logged By		W.C. Hood		Start Oct.		25/88	
Drilled By		Kenora Soil and Drilling		Core Size		BQ		Finish Oct.		26/88	
Footage		From		To		No.		Sample		Assays	
		From		To		No.		From		To	
		Length		Au							
0	4.0	CASING: boulder till.									
4.0	78.4	GRANODIORITE: medium-grained, grey to locally pinkish-grey, massive to locally foliated; blocky drilling in brecciated core with rusty weathering along fractures to 27.1; 65% white (locally pink) feldspar, 15% black biotite, 10% green-black amphibole, 5% grey quartz; irregular patchy or fracture controlled pink potassic alteration; locally foliated zones with minor pyrite; minor fractures & seams with chlorite + pyrite; quartz vein with potassic alteration at 25.1-25.3.									
78.4	81.0	SHEARED GRANODIORITE: medium-grained, generally grey, foliated to sheared; sheared with minor pyrite at 78.4-79.0; foliated with trace pyrite at 79.0-80.4; sheared with increasing silicification & pyritization (3%) with minor chlorite & potassic alteration to 81.0.									
81.0	83.3	QUARTZ VEIN: grey; banded vein with frequent partings & layers of altered granodiorite schist, chlorite-biotite schist, & pyrite stringers; inclusion of potassic altered granodiorite schist at 81.3-81.4; minor calcite band; 4% pyrite; top contact at 61°, lower contact 59°.									
83.3	90.7	SHEARED GRANODIORITE: fine- to medium-grained, grey to pinkish-grey, foliated to sheared; alternating sheared, potassic altered,									
		15642	78.4	80.4	2.0	tr					
		15643	80.4	81.4	1.0	0.01					
		15644	81.4	83.4	2.0	0.20					
		15645	83.4	84.8	1.4	tr					
		15646	84.8	86.4	1.6	tr					
		15647	86.4	88.7	2.3	tr					

Location Black Sturgeon		Anomaly East Zone		D.D.H. N^o KGBS-88-14	
Coordinates at Collar 346W/014S imp. follow-up 026W/208S metric grid		Azimuth 345 ^o		Dip -45 ^o	
Claim N^o K.728302		Logged By W.C. Hood		Finish Oct. 26/88	
Drilled By Kenora Soil and Drilling		Core Size BQ		Dip Test -	
Footage		Sample		Assays	
From	To	N^o	From	To	Length
158.3	207.0				
<p>GEOLOGY</p> <p>150.8, 153.6-153.7, 155.3-155.4, and 156.6-156.7; generally 1% pyrite, 4% pyrite at 155.2-157.1.</p> <p>GRANODIORITE: medium-grained, grey, massive to weakly foliated; potassic alteration almost entirely absent from this section; minor pink aplites at 161.2-161.3 and 172.4-172.7; minor quartz veins + chlorite + pyrite at 170.5-170.6, 172.5, and 180.8; minor grey granitic stringers at 187.8 and 190.0; minor shear zones with slight silicification & pyritization at 181.4-181.6 and 194.3-194.7; rare chloritic alteration; core angle 550 at 194.4.</p> <p>207.0 END OF HOLE.</p> <p><i>W.C. Hood</i></p> <p>William C. Hood, P.Eng.</p>					

Location		Black Sturgeon	Anomaly	East Zone	D.D.H. No	KGBS-88-15	
Coordinates at Collar		346W/014S 026W/208S	imp follow-up metric grid	Azimuth 345°	Dip -65°	Depth 147'	
Claim No		K. 728302	Logged By	W.C. Hood	Start Oct. 26/88	Finish Oct. 26/88	Page 1 of 2
Drilled By		Kenora Soil and Drilling	Core Size	BQ	Dip Test -		
Footage		Sample		Assays			
From	To	No	From	To	Length	Au	
0	4.0						
4.0	98.3						
98.3	115.4						

Footage		Sample		Assays		
From	To	No	From	To	Length	Au
0	4.0					
4.0	98.3					
98.3	115.4					
98.3	115.4	15657	98.2	100.3	1.9	tr
		15658	100.3	104.1	3.8	tr
		15659	104.1	107.0	1.9	tr
		15660	107.0	108.5	1.5	tr
		15661	108.5	111.6	3.1	tr
		15662	111.6	114.3	1.7	tr
		15663	114.3	115.3	1.0	tr

Footage		Sample		Assays		
From	To	No	From	To	Length	Au
0	4.0					
4.0	98.3					
98.3	115.4					

GEOLOGY

4.0 CASING: boulder till.

98.3 GRANODIORITE: medium-grained, grey to locally pink-grey; massive to locally foliated; blocky drilling in broken core with rusty weathering along fractures to 21.0; 65% white (locally pink-grey) feldspar, 15% black biotite, 10% green-black amphibole, 5% green quartz; frequent irregular zones & patches of pale pink potassic alteration, especially at 4.0-40.5, 55.0-65.0, and 76.0-98.3; sheared altered sections with biotite, chlorite, calcite, potassic alteration, and minor pyrite at 29.0-30.2, 33.5-36.8, and 58.4-59.4; irregular grey calcite seams & patches at 83.8-84.5 and 96.6 and 96.7; sheared at 88.8-89.4; minor seams or fracture fillings with quartz, chlorite, biotite, or pyrite.

98.3 115.4 SHEARED GRANODIORITE: fine- to medium-grained, grey, weakly foliated to sheared; alternating sheared and foliated sections; sheared pyritic locally silicified sections include 98.3-100.1, 107.0-108.2, 109.8-110.4, 110.9-111.5, 112.3-113.0, 113.8-114.3 and 114.6-115.4; remainder is variously foliated granodiorite with minor seams & fractures with combinations of chlorite, biotite, calcite, quartz, and pyrite; quartz stringer with coarse biotite & pyrite extends along core from 111.7-112.1; quartz

Location		Black Sturgeon		Anomaly		East Zone		D.D.H. No.		KGBS-88-15						
Coordinates at Collar		346W/014S imp. follow-up 026W/208S metric grid		Azimuth		345°		Dip		-65°						
Claim No.		K.728302		Logged By		W.C. Hood		Start		Oct. 26/88						
Drilled By		Kenora Soil and Drilling		Core Size		BQ		Finish		Oct. 26/88						
Footage				Dip Test		-										
From		To		Sample		No.		From		To						
				Length		Au										
				Assays												
115.4	118.8	<p>veining at 110.1-110.2 with core angle at 45°; pyrite content generally 1 to 3%, but 5% at 107.0-108.5.</p> <p>QUARTZ VEIN:</p> <p>115.4-117.1 grey, glassy; banded sheared quartz vein with frequent partings of biotite-chlorite schist; 5% pyrite overall, both fine disseminated and in vague bonds, but generally concentrated along partings; top contact at 45°.</p> <p>117.1-118.8 white to light grey, glassy; minor partings of biotite-chlorite-pyrite; 2% pyrite; lower contact at 55°.</p> <p>GRANODIORITE:</p> <p>118.8-119.1 weakly sheared section with minor pyrite adjacent to quartz vein.</p> <p>119.1-147.0 medium-grained, grey to locally pink-grey, massive to locally foliated; minor irregular zones & patches of pink potassic alteration; pyritic shear at 126.1-126.7 with quartz vein with pyrite at 126.3-126.4; chloritic, silicified, potassic altered section at 127.3-128.2; weakly sheared pyritic section at 131.0-132.3; shear at 134.9-135.6 with quartz vein at 135.2-135.3; pink aplite at 137.6-137.7; brecciated zone with calcite, chlorite, and potassic alteration at 146.4-146.8.</p>										15664	115.3	117.1	1.8	0.01
118.8	147.0	<p>118.8-119.1 weakly sheared section with minor pyrite adjacent to quartz vein.</p> <p>119.1-147.0 medium-grained, grey to locally pink-grey, massive to locally foliated; minor irregular zones & patches of pink potassic alteration; pyritic shear at 126.1-126.7 with quartz vein with pyrite at 126.3-126.4; chloritic, silicified, potassic altered section at 127.3-128.2; weakly sheared pyritic section at 131.0-132.3; shear at 134.9-135.6 with quartz vein at 135.2-135.3; pink aplite at 137.6-137.7; brecciated zone with calcite, chlorite, and potassic alteration at 146.4-146.8.</p>										15665	117.1	118.9	1.8	tr
147.0	END OF HOLE.	<p>William C. Hood, P.Eng.</p>														

Location		Black Sturgeon		Anomaly Shaft Zone		D.D.H. No. KGBS-88-16	
Coordinates at Collar		1436W/063N imp. follow-up 244W/00BL metric grid		Azimuth 345°		Dip -45°	
Claim No. K.728303		Logged By W.C. Hood		Start Oct. 27/88		Finish Oct. 28/88	
Drilled By		Kenora Soil and Drilling		Core Size BQ		Dip Test -	
Footage		GEOLOGY		Sample		Assays	
From	To	No.		From	To	Length	Au
0	6.0		CASING: boulder till.				
6.0	60.9	15696 15697	DIORITE: medium-grained, grey, massive to locally foliated; 60% grey plagioclase, 25% green-black amphibole, 10% black biotite; minor light grey granite aplite dikes at 12.1-12.2, 17.4-17.6, 18.1-18.3, 18.8-19.1, and 27.4-27.5 (core angle at 55°); foliated to sheared section with 2% disseminated pyrite at 26.2-30.5; minor quartz vein & white aplite at 29.6-29.7; narrow chlorite-pyrite seams extend along core at 31.7-36.0; sheared sections with minor biotite, chlorite, quartz, & pyrite at 36.0-38.0 and 43.5-45.2; 0.05' thick quartz vein with minor pyrite along edges at 40.7 (core angle at 15°); basalt inclusion at 41.2-41.6; other minor inclusions and foliated zones with disseminated pyrite.	27.0 29.0	29.0 30.1	2.0 1.1	tr 0.01
		15698		36.0	38.0	2.0	tr
		15699		43.4	45.3	1.9	tr
60.9	104.6	15700 15701 15702 15703 15704 15705 15706 15707 15708	SHEARED DIORITE: 60.9-87.0 fine- to medium-grained, grey, foliated to sheared; weakly sheared section overall with alternating sheared and foliated sections; sheared sections range from 0.2' to 2.0' thick with minor silicification and up to 5% disseminated pyrite locally; quartz vein at 66.2-66.3 with core angle at 60°; minor late chloritic fracture fillings.	60.9 64.5 67.7 70.6 73.7 76.8 79.1 82.0 84.9 87.0	64.5 67.7 70.6 73.7 76.8 79.1 82.0 84.9 87.0	3.6 3.2 2.9 3.1 3.1 2.3 2.9 2.9 2.1	tr tr tr tr tr tr tr tr tr
		15709 15710	87.0-91.9 fine- to medium-grained, grey, foliated to sheared; progressive increase	87.0 88.9	88.9 90.1	1.9 1.2	tr tr

Location		Black Sturgeon		Anomaly Shaft Zone		D.D.H. No. KGBS-88-16				
Coordinates at Collar		1436W/063N imp. follow-up 244W/00BL metric grid		Azimuth 345°		Dip -45°				
Claim No. K.728303		Logged By W.C. Hood		Start Oct. 27/88		Finish Oct. 28/88				
Drilled By Kenora Soil and Drilling		Core Size BQ		Dip Test -						
Footage		GEOLOGY		Sample			Assays			
From	To	No.	From	To	Length	Au				
		15711	90.1	91.6	1.5	tr				
		15712	91.6	92.7	1.1	0.01				
		15713	92.7	94.1	1.4	0.01				
104.6	107.0	<p>in shearing, silicification, & pyritization down section; minor pink-grey aplitic granite dikes at 87.0-87.2, 87.8-88.0, and 89.7-89.9; minor pink potassic alteration, abundant silicification and 5% pyrite at 90.7-91.9; igneous texture is completely obliterated by shearing at 90.1-91.9.</p> <p>91.9-92.6 quartz vein; glassy, light grey; minor biotite-chlorite partings with pyrite at 92.4-92.6; top contact at 42°, lower contact at 43°.</p> <p>92.6-99.6 sheared altered diorite; medium-grained, grey to greenish- and pinkish-grey, foliated to sheared/schistose; chloritic alteration & minor potassic alteration in sheared section at 92.6-94.1; minor pink alteration in foliated section at 94.1-99.6; pink granitic aplites at 97.4-97.5, 98.6-98.7, and 99.4-99.5.</p> <p>99.6-103.8 medium-grained, grey, foliated; weakly sheared diorite with trace disseminated pyrite; narrow pink aplite stringers at 102.3 and 102.7.</p> <p>103.8-104.6 inclusion of fine-grained, grey, schistose andesite with core angle at 38°; could be a dike.</p> <p>DIORITE: medium-grained, grey, foliated; small cross-cutting stringer of grey intermediate composition aplite at 105.4 that looks</p>								

Location Black Sturgeon		Anomaly Shaft Zone		D.D.H. No. KGBS-88-16	
Coordinates at Collar 1436W/063N imp. Follow-up 244W/00BL metric grid		Azimuth 345°		Dip -45°	
Claim No. K. 728303		Logged By W.C. Hood		Start Oct. 27/88	
Drilled By Kenora Soil and Drilling		Core Size BQ		Finish Oct. 28/88	
Dip Test -					
Footage		Sample		Assays	
From	To	No.	From	To	Length
107.0					
<p>GEOLOGY</p> <p>similar to andesite at 103.8-104.4.</p> <p>107.0 END OF HOLE.</p> <p><i>William C. Hood</i> William C. Hood, P.Eng.</p>					

Location		Black Sturgeon		Anomaly		Shaft Zone		D.D.H. N°		KGBS-88-17	
Coordinates at Collar		1436W/063N imp. follow-up 244W/00BL metric grid		Azimuth		345°		Dip		-65°	
Claim N°		K.728303		Logged By		W.C. Hood		Start Oct.		28/88	
Drilled By		Kenora Soil and Drilling		Core Size		BQ		Finish Oct.		29/88	
Footage		From		To		N°		Sample		Assays	
								From		To	
								Length		Au	
0	5.5	CASING: boulder till.									
5.5	31.7	DIORITE: medium-grained, grey, massive to locally foliated; 60% grey plagioclase, 25% green-black amphibole, 10% black biotite; sheared section with 2% disseminated pyrite at 7.0-9.4 and quartz vein at 7.9-8.0; grey porphyritic dikes with sparse white feldspar phenocrysts & black biotite flakes at 14.0-14.3 and 20.5-21.1; minor chlorite fracture fillings; foliated to sheared at 30.2-31.7.									
31.7	32.7	BASALT INCLUSION: fine-grained, dark grey, foliated; 1% very fine-grained disseminated pyrite.									
32.7	36.5	DIORITE: as at 5.5-31.7, but with minor digested volcanic inclusions at 32.7-33.7.									
36.5	38.8	SHEARED ALTERED DIORITE: 36.5-38.8 medium-grained, green-grey, foliated; zone of pervasive light green (chloritic?) alteration. 37.3-37.4 quartz vein with 3% pyrite; core angle at 51°.									
38.8	40.1	SHEARED ALTERED BASALT INCLUSION (?): fine-grained, grey, schistose; minor stringers of diorite; minor quartz veining; 2% disseminated pyrite.									
		15714	7.0	9.0	2.0	0.01					
		15715	36.8	38.7	1.9	tr					
		15716	38.7	41.0	2.3	tr					

Location		Black Sturgeon		Anomaly Shaft Zone		D.D.H. №. KGBS-88-17	
Coordinates at Collar		1436W/063N imp. follow-up 244W/00BL metric grid		Azimuth		345°	
Claim №		K.728303		Dip		-65°	
Logged By		W.C. Hood		Start		Oct. 28/88	
Drilled By		Kenora Soil and Drilling		Finish		Oct. 29/88	
Core Size		BQ		Dip Test		-	
Footage		Sample		Assays			
From	To	№	From	To	Length	Au	
40.1	42.4	15717	41.0	42.4	1.4	tr	
<p>GEOLOGY</p> <p>40.1 42.4 SHEARED DIORITE: fine- to medium-grained, grey foliated to sheared; decrease in shearing down section; sheared section at 40.5-41.0 has 5% disseminated pyrite and a central quartz stringer at 40.7 (core angle at 40°) small irregular basalt inclusion at 42.2-42.3 has 25% disseminated pyrite.</p> <p>42.4 84.6 DIORITE: 42.4-48.5 generally as at 5.5-31.7, but with minor chloritic seams and small digested basalt inclusions. 48.5-52.7 altered diorite; pervasive weak chloritization of amphiboles; minor potassic alteration; medium- to coarse-grained section at 52.0-52.7. 52.7-61.7 zone of medium- to coarse-grained diorite with gradational contacts; rare quartz-chlorite seams. 61.7-84.6 generally as at 5.5-31.7; minor biotitized volcanic inclusions.</p>							
84.6	90.4	15718 15719 15720 15721	85.0 87.0 88.2 89.3 90.8	87.0 88.2 89.3 90.8	2.0 1.2 1.1 1.5	0.01 tr tr tr	
<p>84.6 90.4 SHEARED DIORITE: medium-grained, grey, foliated to sheared; generally foliated with minor sheared sections with pyrite + quartz veining; strongly sheared section with 5% pyrite at 88.5-89.1 centered on narrow quartz vein at 88.9; core angle 50° at 88.9.</p>							

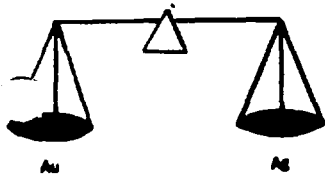
Location		Black Sturgeon		Anomaly		Shaft Zone		D.D.H. No. KGBS-88-17			
Coordinates at Collar		1436W/063N imp. follow-up 244W/00BL metric grid		Azimuth		345°		Dip		-65°	
Claim No.		K. 728303		Logged By		W.C. Hood		Start		Oct. 28/88	
Drilled By		Kenora Soil and Drilling		Core Size		BQ		Finish		Oct. 29/88	
Footage		From		To		Sample		Length		Assays	
		No.		From		To		Au			
90.4	96.1	DIORITE: medium-grained, grey, foliated, minor disseminated pyrite.									
96.1	99.3	ALTERED DIORITE: medium-grained, light grey, generally foliated; weak potassic alteration & chloritization; 1% pyrite.									
99.3	102.8	DIORITE: medium-grained, grey, foliated; minor disseminated pyrite.									
102.8	109.8	SHEARED DIORITE:									
		102.8-105.7 strongly sheared section with 5% pyrite overall & minor silicification.									
		105.7-108.6 foliated section with 1% disseminated pyrite.									
		108.6-109.8 moderately sheared section with 2% disseminated pyrite; core angle 30° at 109.5.									
109.8	135.0	DIORITE: medium-grained, grey, foliated; minor disseminated pyrite throughout; medium-grained grey granitic dike at 119.2-119.3; coarse-grained pink granite dike at 122.5-122.7; sheared section with 2% disseminated pyrite at 123.9-125.3 centered on a quartz-chlorite stringer at 124.5; pink-grey granite aplite dikes at 127.0-127.2, 128.4-128.7, and 129.4-129.5; minor chlorite & potassic alteration at 131.7-132.5.									
		15722	96.1	97.3	1.2	tr					
		15723	97.3	99.3	2.0	tr					
		15724	102.8	105.7	2.9	tr					
		15725	105.7	107.7	2.0	tr					
		15726	107.7	109.8	2.1	0.01					
		15727	124.9	125.3	1.4	0.01					
	135.0	END OF HOLE.									

W.C. Hood
 William C. Hood, P.Eng.

Location		Black Sturgeon		Anomaly		Shaft Zone		D.D.H. No.		KGBS-88-18					
Coordinates at Collar		1340W/077N imp. follow-up 221W/013S metric grid		Azimuth 345°		Dip -45°		Depth 107'		Page 1 of 3					
Claim No.		K. 728302		Logged By		W.C. Hood		Start Oct. 29/88		Finish Oct. 30/88					
Drilled By		Kenora Soil and Drilling		Core Size		BQ		Dip Test		-					
Footage		Sample										Assays			
From		To		No.		From		To		Length		Au			
0		7.0													
7.0		20.9		CASING: boulder till. SHEARED DIORITE: medium-grained, grey, foliated to sheared. 7.0-17.6 moderately foliated section; locally up to 3% pyrite in sheared sections but generally about 1%; minor chlorite; quartz vein at 13.8-14.0. 17.6-19.9 heavily sheared section with 4% pyrite overall; frequent irregular quartz stringers with pyrite; core angle 53° at 18.3. 19.9-20.9 shearing decreases down section.		15728 15729 15730		12.3 13.4 15.4		13.4 15.4 17.6		1.1 2.0 2.2		tr tr tr	
20.9		48.3		DIORITE: medium-grained, grey, massive to foliated; 60% grey plagioclase, 25% green-black amphibole, 10% black biotite; minor light grey aplite stringers; minor chloritic fracture fillings with bleached margins & minor pyrite; rare basalt inclusions. SHEARED ALTERED DIORITE: generally medium-grained, fine-grained in sheared and/or altered sections; grey to green-grey, foliated to sheared; minor quartz veins at 48.5 and 50.1; locally pervasive chlorite-epidote alteration - especially at 51.4-54.5; seam of coarse pink K-feldspar, chlorite, & quartz at 56.5-56.6; generally about 1% pyrite but locally more abundant.		15731 15732		17.6 19.9		19.9 20.9		2.3 1.0		tr tr	
48.3		57.0				15733 15734 15735 15736		48.4 50.3 53.7 55.8		50.3 53.7 55.8 57.0		1.9 3.4 2.1 1.2		tr tr tr tr	

Location		Black Sturgeon		Anomaly		Shaft Zone		D.D.H. N ^o		KGBS-88-18	
Coordinates at Collar		1340W/077N imp. follow-up 221W/013S metric grid		Azimuth		345 ^o		Dip		-45 ^o	
Claim N ^o		K. 728302		Logged By		W.C. Hood		Start		Oct. 29/88	
Drilled By		Kenora Soil and Drilling		Core Size		BQ		Finish		Oct. 30/88	
Footage				Dip Test		-				Page 2 of 3	
From		To		Sample		N ^o		From		To	
				Length		Au					
57.0	81.0	<p>DIORITE: generally as at 20.9-48.3, but pervasively foliated to locally sheared; minor chloritic seams with disseminated pyrite in adjacent diorite; weakly sheared with minor potassic alteration & chlorite at 57.0-58.5; sheared section with 2% disseminated pyrite at 62.1-62.7 centered on chloritic stringer at 62.4; sheared section with 2% disseminated pyrite & minor quartz veining at 70.6-72.0; grey fine-grained granodiorite dikes at 75.9-76.1 and 69.6-69.9; core angle 56^o at 71.4.</p>									
81.0	87.0	<p>SHEARED DIORITE: 81.0-82.0 shearing increases down section; 1% disseminated pyrite. 82.0-86.0 fine- to medium-grained, grey, schistose; heavily sheared section with 3% pyrite overall; extensive silicification & quartz veining at 82.5-83.2 and 84.5-85.8; quartz vein at 85.6-85.7 has lower contact at core angle 49^o. 86.0-87.0 shearing decreases down section.</p>									
87.0	91.3	<p>DIORITE: medium-grained, grey, foliated; minor pink potassic alteration; minor disseminated pyrite.</p>									
91.3	93.3	<p>INTERMEDIATE DIKE: very fine-grained, grey foliated; minor inclusion of diorite at 92.7; top contact at 54^o, lower contact at 49^o.</p>									

Location Black Sturgeon		Anomaly Shaft Zone		D.D.H. N° KGBS-88-18		
Coordinates at Collar 1340W/077N imp; follow-up 221W/013S metric grid		Azimuth 345°		Dip -45°		
Claim N° K.728302		Logged By W.C. Hood		Depth 107'		
Drilled By Kenora Soil and Drilling		Start Oct. 29/88		Finish Oct. 30/88		
Core Size BQ		Dip Test -		Page 3 of 3		
Footage		Sample			Assays	
From	To	N°	From	To	Length	Au
93.3	98.3					
98.3	100.4	15742	98.3	100.4	2.1	0.01
100.4	107.0					
107.0						
GEOLOGY						
<p>DIORITE: medium-grained, grey, generally foliated; minor disseminated pyrite.</p> <p>SHEARED DIORITE: medium-grained, grey, schistose; sheared section with 1% disseminated pyrite; narrow quartz stringer at 99.6.</p> <p>DIORITE: generally as at 93.3-98.3.</p> <p>END OF HOLE.</p> <p style="text-align: right;"><i>William C. Hood</i> William C. Hood, P.Eng.</p>						



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Res. (807) 662-336

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Box 253, Cochenour, Ontario POV 1L0

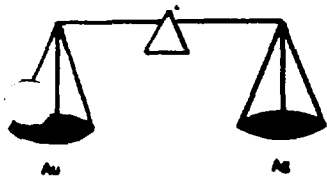
Kenora Gold Occurances Inc,

ASSAY CERTIFICATE

Date: Oct. 20, 1988.

Sample No.	Description	oz/ton Au	oz/ton Ag
1 15609	BLACK STURGEON EAST ZONE DRILL HOLE KEBS-88-4	.08	
2 10	—— 11 ——	Trace	
3 11	—— 11 ——	"	
4 12		"	
5 13		"	
6 14	BLACK STURGEON EAST ZONE DRILL HOLE KEBS-88-5	"	
7 15	—— 11 ——	"	
8 16	—— 11 ——	"	
9 17	—— 11 ——	"	
10 18	—— 11 ——	"	
11 19		"	
12 20		"	
13 21		"	
14 22		"	
15 23		"	
16 24		"	
17 25	BLACK STURGEON EAST ZONE DRILL HOLE KEBS-88-6	"	
18 26	—— 11 ——	"	
19 27	—— 11 ——	"	
20 28	—— 11 ——	"	
21 29	—— 11 ——	"	
22 30	—— 11 ——	"	
23 31	—— 11 ——	"	
24 32	—— 11 ——	"	
25			

Assayer: *Paul Okanski*



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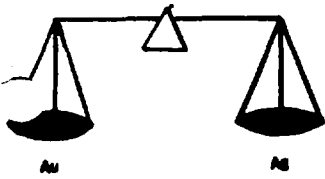
Kenora Gold Occurances Inc.

ASSAY CERTIFICATE

Date: Oct. 20, 1988.

Sample No.	Description	oz/ton Au	oz/ton Ag
1 14	BSBH-88- BLACK STURGEON EAST ZONE TRENCH CHIP SAMPLE	.28	
2 15	—— " ——	.06	
3 16	—— " ——	.04	
4 17	—— " ——	.60	
5 18	—— " ——	.36	
6 19	—— " ——	Trace	
7 20	—— " ——	"	
8 21	—— " ——	"	
9 22	—— " ——	.06	
10 23	—— " ——	Trace	
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

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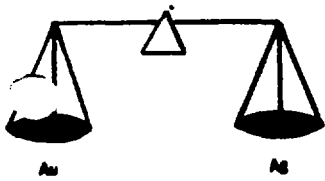
Kenora Gold Occurances Inc,

ASSAY CERTIFICATE

Date: Oct. 31, 1988.

Sample No.	Description	oz/ton Au	oz/ton Ag
1	15633 BLACK STURGEON EAST ZONE DRILL HOLE K6BS-88-13	Trace	
2	34 —— 11 ——	.12	
3	35 —— 11 ——	.16	
4	36 —— 11 ——	Trace	
5	37 —— 11 ——	"	
6	38 —— 11 ——	.01	
7	39 —— 11 ——	Trace	
8	40 —— 11 ——	"	
9	41 —— 11 ——	.02	
10	42 BLACK STURGEON EAST ZONE DRILL HOLE K6BS-88-14	Trace	
11	43 —— 11 ——	.01	
12	44 —— 11 ——	.20	
13	45 —— 11 ——	Trace	
14	46 —— 11 ——	"	
15	47 —— 11 ——	"	
16	48 —— 11 ——	.04	
17	49 —— 11 ——	Trace	
18	50 —— 11 ——	"	
19	51 —— 11 ——	"	
20	52 —— 11 ——	"	
21	53 —— 11 ——	"	
22	54 —— 11 ——	"	
23	55 —— 11 ——	.01	
24	56 —— 11 ——	.01	
25	57 BLACK STURGEON EAST ZONE DRILL HOLE K6BS-88-15	Trace	

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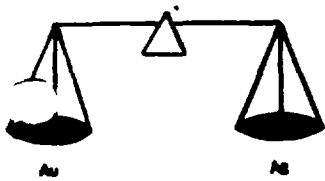
ASSAY CERTIFICATE

Date: Oct. 31, 1988.

Kenora Gold Occurances Inc,

Sample No.	Description	oz/ton Au	oz/ton Ag
1	15658 BLACK STURGEON EAST ZONE DRILL HOLE KGB-88-15	Trace	
2	59 ————— // —————	"	
3	60 ————— // —————	"	
4	61 ————— // —————	"	
5	62 ————— // —————	"	
6	63 ————— // —————	"	
7	64 ————— // —————	.01	
8	65 ————— // —————	Trace	
9	66 ————— // —————	"	
10	67 ————— // —————	"	
11	24 KG-BS-88- BLACK STURGEON EAST ZONE TRENCH CHIP SAMPLE	"	
12	25 ————— // —————	.12	
13	26 ————— // —————	Trace	
14	27 ————— // —————	"	
15	28 ————— // —————	"	
16	29 ————— // —————	"	
17	30 ————— // —————	"	
18	31 ————— // —————	"	
19	32 ————— // —————	.02	
20	33 BLACK STURGEON SHAFT ZONE TRENCH CHIP SAMPLE	.01	
21	34 ————— // —————	.06	
22	35 ————— // —————	Trace	
23	36 ————— // —————	"	
24	37 ————— // —————	"	
25	38 ————— // —————	"	

Assayer: Paul Okanski



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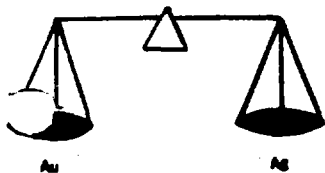
ASSAY CERTIFICATE

Date: Oct. 31, 1988.

Kenora Gold Occurances Inc.

Sample No.	Description	oz/ton Au	oz/ton Ag
1 39	KG-88-BS- BLACK STURGEON EAST ZONE CHIP SAMPLE (TRENCH)	Trace	
2 40	———— " ————	.01	
3 41	———— " ————	Trace	
4 42	———— " ————	"	
5 43	———— " ————	.01	
6 44	———— " ————	Trace	
7 45	———— " ————	"	
8 46	———— " ————	"	
9 47	———— " ————	"	
10 48	———— " ————	"	
11 49	———— " ————	.02	
12 50	———— " ————	Trace	
13 51	———— " ————	"	
14 52	———— " ————	"	
15 53	———— " ————	.01	
16 1988	BLACK STURGEON SHAFT ZONE TRENCH - GRAB	Trace	
17 09	———— " ————	.02	
18 10	———— " ————	.14	
19 11	———— " ————	.18	
20			
21			
22			
23			
24			
25			

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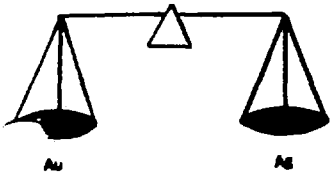
Kenora Gold Occurrences Inc.

ASSAY CERTIFICATE

Date: Nov. 4, 1988.

Sample No.	Description	oz/ton Au	oz/ton Ag
1	1912 KG-BS- GRAB SAMPLE FROM BLACK STURGEON SHAF DUMP.	Trace	
2	13 _____	.01	
3	14 _____	Trace	
4	15 _____	"	
5	16 _____	"	
6	17 _____	.01	
7	1918&1919 _____	Trace	
8	20 _____	"	
9	21 _____	.22	
10	22 _____	.52	
11	23 _____	Trace	
12	24 _____	"	
13	25 _____	.24	
14	26 _____	Trace	
15	27 _____	"	
16			
17			
18			
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24			
25			

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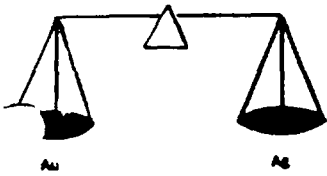
Date: Nov. 8, 1988.

Kenora Gold Occurances Inc.

Sample No.	Description	oz/ton Au	oz/ton Ag
1 15668	PRINCESS DRILL HOLE K&PS-88-12	Trace	
2 69	— 11 —	"	
3 70	— 11 —	"	
4 71	— 11 —	"	
5 72	— 11 —	"	
6 73	— 11 —	.01	
7 74	— 11 —	Trace	
8 75	— 11 —	"	
9 76	— 11 —	"	
10 77	— 11 —	"	
11 78	— 11 —	"	
12 79	BLACK STURGEON SHAFT ZONE DRILL HOLE K&PS-88-10	* .01	
13 80	— 11 —	.06	
14 81	— 11 —	Trace	
15 82	— 11 —	"	
16 83	— 11 —	"	
17 84	— 11 —	"	
18 85	— 11 —	"	
19 86	— 11 —	"	
20 87	— 11 —	"	
21 88	— 11 —	"	
22 89	— 11 —	"	
23			
24			
25			

Assayer:

Paul Okanski



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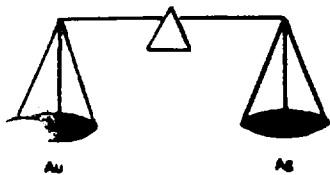
Kenora Gold occurrences Inc.

ASSAY CERTIFICATE

Date: Nov. 14-88

Sample No.	Description	oz/ton Au	oz/ton Ag
1 15690	BLACK STURGEON SHAFT ZONE DRILL HOLE KGBS-88-11	Trace	
2 91	————— " —————	"	
3 92	————— " —————	"	
4 93	————— " —————	"	
5 94	————— " —————	"	
6 95	————— " —————	"	
7 96	BLACK STURGEON SHAFT ZONE DRILL HOLE KGBS-88-16	"	
8 97	————— " —————	.01	
9 98	————— " —————	Trace	
10 99	————— " —————	"	
11 15700	————— " —————	"	
12 01	————— " —————	"	
13 02	————— " —————	"	
14 03	————— " —————	"	
15 04	————— " —————	"	
16 05	————— " —————	"	
17 06	————— " —————	"	
18 07	————— " —————	"	
19 08	————— " —————	"	
20 09	————— " —————	"	
21 10	————— " —————	"	
22 11	————— " —————	"	
23 12	————— " —————	.01	
24 13	————— " —————	.01	
25 14	BLACK STURGEON SHAFT ZONE DRILL HOLE KGBS-88-17	.01	

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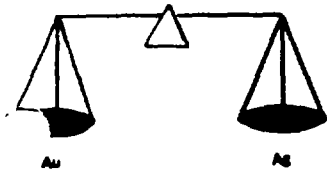
Kenora Gold Occurances Inc.

ASSAY CERTIFICATE

Date: Nov. 14-88

Sample No.	Description	oz/ton Au	oz/ton Ag
1 15715	BLACK STURGEON SHAFT ZONE DRILL HOLE KEBS-88-17	Trace	
2 16	— 11 —	"	
3 17	— 11 —	"	
4 18	— 11 —	.01	
5 19	— 11 —	Trace	
6 20	— 11 —	"	
7 21	— 11 —	"	
8 22	— 11 —	"	
9 23	— 11 —	"	
10 24	— 11 —	"	
11 25	— 11 —	"	
12 26	— 11 —	.01	
13 27	— 11 —	.01	
14 28	— 11 —	Trace	
15 29	— 11 —	"	
16 30	— 11 —	"	
17 31	— 11 —	"	
18 32	— 11 —	"	
19 33	— 11 —	"	
20 34	— 11 —	"	
21 35	— 11 —	"	
22 36	— 11 —	"	
23 37	— 11 —	"	
24 38	— 11 —	"	
25 39	— 11 —	.01	

Assayer: *Paul Okanski*



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Kenora Gold Occurrences Inc.

ASSAY CERTIFICATE

Date: Nov. 14-88

Sample No.	Description	oz/ton Au	oz/ton Ag
1	15740 BLACK STURGEON SHAFT ZONE DRILL HOLE KGBS-88-18	.01	
2	41 ——— // ———	Trace	
3	42 ——— // ———	.01	
4	43 BLACK STURGEON SHAFT ZONE DRILL HOLE KGBS-88-19	Trace	
5	44 ——— // ———	"	
6	45 ——— // ———	"	
7	46 ——— // ———	"	
8	47 ——— // ———	.01	
9	48 ——— // ———	Trace	
10	49 ——— // ———	"	
11	50 ——— // ———	"	
12	51 ——— // ———	"	
13	52 ——— // ———	"	
14	53 ——— // ———	"	
15	54 ——— // ———	"	
16	55 ——— // ———	"	
17	56 ——— // ———	.01	
18	57 ——— // ———	Trace	
19	58 ——— // ———	.01	
20	59 ——— // ———	Trace	
21	60 ——— // ———	"	
22	61 ——— // ———	"	
23	62 ——— // ———	"	
24			
25			

Assayer: *Paul Okanski*



REPORT: 060-50099.4 (COMPLETE)

REFERENCE: IRON

SUBJECT: KENORA GOLD
 PROJECT: NONE

SUBMITTED BY:
 DATE PRINTED: 12-JAN-89

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	UNIT
1	As 150 Gold +100 Fraction	5	0.000 g/t		
2	As 150 Gold +100 Fraction	5	0.000 g/t		
3	As AVE Gold Weight Average	5	0.000 g/t		
4	150Wt Weight +100 Unobtain	5	g/g		
5	150Wt Weight +100 Unobtain	5	g/g		

GRADE TYPE	DEPTH	SIZE FRACTIONS	NO. OF SAMPLES	SAMPLE PREPARE CODE	ANALYSIS
PRIME CORE	5	+150/-100	5	Other Sample Prep 1	5

ANALYSIS OF IRON FROM SAMPLES TO BE ANALYZED BY ICP-MS.
 ANALYSIS ON 12 JAN 89 BY EL.

REPORT: 060-50099.4 (COMPLETE)
 5420 CANOTEK ROAD
 OTTAWA, ONTARIO K1J 2

INVOICE TO: 060-500 RICHMOND ST. W.

COARSE GOLD ANALYSES
 - CHECKS ON BLACK
 SURGEON CORE
 SAMPLES



REPORT: 005-00009.4

PROJECT: NUNL

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU-150 UPI	AC-150 UPI	AU Ave UPI	-150WI g/g	+150WI g/g
15007		0.030	0.142	0.035	340.12	38.29
15008		0.030	0.035	0.042	201.11	25.51
15009		0.097	0.030	0.101	314.11	51.69
15042		0.002	0.000	0.002	433.11	23.25
15044		0.107	1.032	0.140	411.10	14.02

APPENDIX D
DETAILS OF
WORK,
CERTIFICATES,
ETC.

J. A. GOODWIN

PROJECT GENERATION AND MANAGEMENT

4219 TRELIS CRESCENT, MISSISSAUGA, ONTARIO, CANADA. L5L 2M1

TEL: (416) 820 - 3295

CERTIFICATE OF QUALIFICATIONS

I, John A. Goodwin, do hereby swear that:

- I reside at 4219 Trellis Crescent, Mississauga, Ontario. L5L 2M1;

- My occupation is that of a consulting and contracting geologist;

- I graduated from London University, Great Britain, in 1972 with a BSc. Degree in Geology;

- I have 17 years experience as a geologist in mineral exploration and related fields, including gold exploration programs in Ontario, the Northwest Territories and abroad;

- I am a fellow of the Geological Association of Canada;

- I have no direct or indirect financial interest in the Princess/Black Sturgeon property;

- This report is based on several visits to the property and supervision of the exploration program.

This done and signed on the 30th day of January, 1989.





GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Geochemical, sampling, trenching and drilling

Township or Area Haycock

Claim Holder(s) Kenora Gold Occurrences Inc.

Survey Company See attached list

Author of Report J. A. Goodwin, FGAC

Address of Author 4219 Trellis Cres. Miss. Ont. L5L 2M1

Covering Dates of Survey Aug. 1st to Dec. 31st, 1988

Total Miles of Line Cut see accompanying geophysical report
(linecutting to office)

MINING CLAIMS TRAVERSED
List numerically

K 899595

(prefix) 899596 (number)

899597

899598

899599

899600

1003736

1003737

1003738

1003739

1003740

1003741

If space insufficient, attach list

TOTAL CLAIMS _____

**SPECIAL PROVISIONS
CREDITS REQUESTED**

DAYS
per claim.

ENTER 40 days (includes
line cutting) for first
survey.

ENTER 20 days for each
additional survey using
same grid.

- Geophysical
 - Electromagnetic _____
 - Magnetometer _____
 - Radiometric _____
 - Other _____
- Geological _____
- Geochemical _____

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: 30-01-89 SIGNATURE: _____



Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

OFFICE USE ONLY

GEOCHEMICAL SURVEY - PROCEDURE RECORD

K 899597

Numbers of claims from which samples taken _____

Total Number of Samples 15
Type of Sample Soil (humus)
(Nature of Material)
Average Sample Weight 200 g
Method of Collection manual

Soil Horizon Sampled A
Horizon Development _____
Sample Depth _____
Terrain _____

Drainage Development _____
Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

SEE APPENDIX C FOR SAMPLE PREPARATION AND ANALYSIS TECHNIQUE

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m.
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

CONTRACTORS AND PERSONNEL INVOLVED IN PROGRAM

GEOPHYSICS:

See accompanying geophysical report.

GEOCHEMISTRY:

G.Zeebruck, RR #1, Airport Road, Kenora, Ont. P9N 3W7

PROSPECTING, GEOLOGY AND DRILL SUPERVISION:

W.C.HOOD, Box 1722, Beausijour, Manitoba. R0E 0C0

J.A.Goodwin, 4219 Trellis Cres. Mississauga, Ontario. L5L 2M1

G.Zeebruck (see above)

DRILLING:

Kenora Soil and Drilling, Box 109, Kenora, Ont. P9N 3X1

A.Falardean, Salt Spring Is, B.C.

H.Kipling, Manigotagan, Man.

A.Brandt, Bisset, Man.

R.Ivorson, Kenora, Ont.

O.Olafson, Kenora, Ont.

G.Ivorson, Kenora, Ont.

TRENCHING:

Kenora Soil and Drilling (see above).

Devlin Timber Ltd. Kenora, Ont.

G.Zeebruck (see above).

Location		Black Sturgeon		Anomaly		Shaft zone		D.D.H. No. KGBS-88-19						
Coordinates at Collar		1340W/077N imp. follow-up 221W/013S metric grid		Azimuth 345°		Dip -65°		Depth 137'						
Claim No. K.728302		Logged By W.C. Hood		Start Oct. 30/88		Finish Oct. 31/88		Page 1 of 2						
Drilled By Kenora Soil and Drilling		Core Size BQ		Dip Test -										
Footage		GEOLOGY								Assays				
From	To	No.	From	To	Length	Au								
0	6.0		CASING: boulder till.											
6.0	22.2	15743 15744	DIORITE: medium-grained, grey, generally foliated; pink granitic dikes at 6.3 and 7.0-7.1; sheared section with 1% disseminated pyrite and rare quartz stringers at 13.7-16.7.								15.1 16.7	1.4 1.6	tr tr	
22.2	30.3	15745 15746 15747 15748	SHEARED DIORITE: fine- to medium-grained, grey, foliated to sheared; rare narrow quartz veins & grey aplite stringers; local coarse pyrite associated with chlorite and biotite seams; core angle 40° at 28.0.								24.5 26.4 29.1 30.3	2.0 1.9 2.7 1.2	tr tr 0.01 tr	
30.3	120.2		DIORITE: medium-grained, grey, massive to foliated; 60% grey plagioclase, 25% green-black amphibole, 10% biotite; grey aplite dike at 35.4-35.5; sheared section with minor grey aplite stringers & minor pyrite at 43.2-45.7; sheared sections with minor pyrite & quartz-epidote-chlorite stringers at 51.1-51.2 and 52.0-52.1; foliated section with minor disseminated pyrite & grey aplite stringer at 56.5-57.5; sheared section at 75.2-76.4 with 1% disseminated pyrite centered on a quartz-chlorite vein at 75.8 (core angle at 35°) altered chloritic zone at 87.0-88.0; pink-grey granite aplite at 89.6-90.0; weakly sheared section with minor grey aplite stringers, quartz-chlorite-epidote stringers, and 1% pyrite overall at 104.0-106.8.								43.2 50.8 56.5 75.1	45.7 52.3 57.5 76.5	2.5 1.5 1.0 1.4	tr tr tr tr
		15753	104.0	106.8	2.8						tr			

Location		Black Sturgeon		Anomaly Shaft Zone		D.D.H. No. KGBS-88-19		
Coordinates at Collar		1340W/077N imp. follow-up 221W/013S metric grid		Dip		-65°		
Claim No. K.728302		Logged By W.C. Hood		Start		Oct. 30/88		
Drilled By Kenora Soil and Drilling		Core Size		Finish		Oct. 31/88		
Footage		GEOLOGY		Sample		Assays		
From	To	No.	From	To	Length	AU		
120.2	137.0							
			<p>SHEARED DIORITE:</p> <p>120.2-123.5 heavily sheared altered section with 3% pyrite overall; quartz-chlorite-pyrite veins at 121.4 (core angle at 40°) and 122.6-122.8, with abundant silicification in between.</p> <p>123.5-128.9 weakly sheared section with minor quartz + chlorite stringers at 127.7 and 128.4; 1% disseminated pyrite overall.</p> <p>128.9-137.0 heavily sheared section with 3% pyrite overall - mostly disseminated but locally in clots & stringers along schistosity; minor quartz stringers & silicified zones with chlorite.</p>					
		15754	120.0	121.0	1.0	tr		
		15755	121.0	123.5	2.5	tr		
		15756	123.5	125.1	1.6	0.01		
		15757	125.1	127.6	2.5	tr		
		15758	127.6	129.0	1.4	0.01		
		15759	129.0	131.2	2.2	tr		
		15760	131.2	133.0	1.8	tr		
		15761	133.0	135.4	2.4	tr		
		15762	135.4	137.0	1.6	tr		
	137.0		<p>END OF HOLE.</p> <p><i>William C. Hood</i></p> <p>William C. Hood, P.Eng.</p>					

APPENDIX B
DESCRIPTION
OF SAMPLES

DESCRIPTION OF SAMPLES

EAST ZONE

KGBH 88 1	4' Chip, quartz vein.
KGBH 88 2	Composite grab, rusty quartz with minor schist and pyrite.
KGBH 88 3	Grab, rusty white quartz minor pyrite.
KGBH 88 4	White/grey quartz with minor pyrite.
KGBH 88 5	Composite grab of sheared, altered granodiorite.
KGBH 88 6	Sheared granodiorite with disseminated pyrite.
KGBH 88 7	Composite grab of grey to red sugary quartz with pyrite.
BSBH 88 8	2.0' chip, quartz.
9	1.1' chip, sheared, altered rusty granodiorite.
10	1.1' chip, sheared granodiorite.
11	1.5' chip, sheared granodiorite.
12	1.0' chip, sheared granodiorite with minor quartz.
13	1.3' chip, quartz vein.
14	0.6' chip, quartz vein.
15	0.6' chip, quartz vein.
16	2.9' chip, sheared, rusty granodiorite.
17	1.9' chip, quartz vein.
18	1.0' chip, quartz and sheared granodiorite.
19	0.8' chip, quartz vein.
20	3.8' chip, fractured granodiorite.
21	4.4' chip, sheared granodiorite.
22	2.1' chip, quartz vein.
23	1.9' chip, sheared granodiorite.
KGBS 88 24	1.5' chip, sheared granodiorite.
25	1.7' chip, sheared granodiorite with quartz.
26	1.2' chip, sheared granodiorite.
27	1.1' chip, sheared granodiorite.
28	1.5' chip, sheared granodiorite with quartz.
29	1.5' chip, sheared granodiorite with pink aplite.
30	3.0 chip, quartz vein.

KGBS 88 31 4.7' chip, sheared granodiorite.
32 1.3' chip, quartz vein.

SHAFT ZONE

KGBS 88 33 1.5' chip, sheared granodiorite.
34 1.2' chip, quartz vein.
35 1.3' chip, sheared granodiorite.
36 1.2' chip, sheared granodiorite.
37 2.6' chip, quartz vein.
38 1.1' chip, sheared granodiorite.
39 1.3' chip, sheared granodiorite.
40 2.1' chip, quartz vein.
41 1.7' chip, sheared granodiorite.
42 1.1' chip, sheared granodiorite.
43 1.3' chip, sheared granodiorite, minor quartz.
44 1.5' chip, sheared granodiorite.
45 1.0' chip, sheared granodiorite.
46 1.5' chip, quartz vein with sheared granodiorite.
47 1.2' chip, sheared granodiorite.
48 1.9' chip, sheared granodiorite.
49 0.9' chip, quartz vein.
50 0.9' chip, sheared granodiorite.
51 1.2' chip, sheared granodiorite.
52 2.3' chip, quartz vein.
53 1.9' chip, sheared granodiorite.

- 1701 Black Sturgeon shaft dump. Dioritic "wall-rock" with 5% pyrite.
- 1702 Black Sturgeon shaft dump. White quartz vein in altered mafic volcanic with 10% disseminated pyrite.
- 1703 Black Sturgeon shaft dump. Dioritic "wall-rock".
- 1704 Black Sturgeon shaft dump. Quartz stringers in silicified mafic volcanic with 5% pyrite.
- 1705 Black Sturgeon shaft dump. Dioritic "wall-rock" with 5% pyrite.
- 1706 Black Sturgeon shaft dump. Sheared quartz with tourmaline and 5% pyrite.
- 1707 Black Sturgeon shaft dump. White quartz vein with 10% pyrite.
- 1708 Princess shaft dump. Rusty white quartz.
- 1709 Princess shaft dump. Rusty quartz with tourmaline and 5% pyrite.

APPENDIX C
ASSAY AND ANALYSIS
CERTIFICATES

Bondar-Clegg Company Ltd
 5100 Wood Road
 Ottawa, Ontario
 K1H 8S3
 (613) 737-0111



**Geochemical
 Lab Report**

REPORT: 088-52902.0 (COMPLETE)

REFERENCE INFO:

CLIENT: W.C. HOOD GEOLOGICAL CONS.
 PROJECT: NONE

SUBMITTED BY: W.C. HOOD
 DATE PRINTED: 6-OCT-88

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au Gold	184	1 PPB	AQUA REGIA	FireAssay/IC Plasma
2	Au Few Au Fractions	4	1 PPB		
3	Au Few Au Fractions	4	1 PPB		
4	Testwt Fire Assay Test Wt.	11	0.01 ans		

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
ORGANIC OP HUNTS	184	-10	184	Steve -10	184

REMARKS: ALL SAMPLES WERE TOTALLY PREPARED.
 < MEANS LESS THAN

REPORT COPIES TO: BOX 1722
 KEMERA GOLD OCCURRENCES

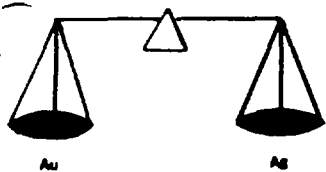
INVOICE TO: BOX 1722

REPORT: 085-52902.0

PROJECT: N34E

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AN PPB	AU PPB	REW PPB	TESTWT g/s	SAMPLE NUMBER	ELEMENT UNITS	AN PPB	AU PPB	REW PPB	TESTWT g/s	
L0-1+70S		3	BLACK STURBEON SOIL GEOCHEM			L3E-0+70N		2	ROSEMAN			
L0-1+80S		3				L3E-0+60N		<1				
L0-1+90S		1				L3E-0+40N		<1				
L0-2+00S		9				L3E-0+20N		1				
L0-2+10S		3				L3E-0+10N		3				
L0-2+20S		<1				L3E-0+00N		2				
L70-1+60S		6				L3E-A		4				
L70-1+70S		7				L3E-B		8			5.00	
L70-1+80S		7				L3E-C		9				
L70-1+90S		8				L4E-A		6				
L70-2+00S		14			5.00	L4E-B		<1				
L70-2+10S		8				L4E-3+40N		2				
L70-2+20S		5				L4E-3+30N		<2			5.00	
L70-2+30S		5				L4E-3+20N		7				
L3E-3+00N		6	ROSEMAN IRON FORMATION SOIL GEOCHEM			L4E-3+10N		<1				
L3E-3+30N		8				L4E-3+00N		7				
L3E-3+20N		7				L4E-2+90N		7				
L3E-3+10N		5				L4E-2+80N		4				
L3E-3+00N		3				L4E-2+60N		4				
L3E-2+90N		4				L4E-2+50N		2				
L3E-2+80N		5				L4E-2+40N		3				
L3E-2+70N		5				L4E-2+30N		12				
L3E-2+60N		<1				L4E-2+20N		2			5.00	
L3E-2+50N		3				L4E-2+10N		5				
L3E-2+40N		<1				L4E-2+00N		5				
L3E-2+30N		<1				L4E-1+90N		<2			5.00	
L3E-2+20N		<1				L4E-1+80N		12			5.00	
L3E-2+10N		<1				L4E-1+70N		8			5.00	
L3E-2+00N		4				L4E-1+60N		3				
L3E-1+90N		<1				L4E-1+50N		9				
L3E-1+80N		<1				L4E-1+40N		6				
L3E-1+70N		<1				L4E-1+30N		12				
L3E-1+60N		<1				L4E-1+20N		9				
L3E-1+50N		<1				L4E-1+10N		5				
L3E-1+40N		2				L4E-1+00N		5				
L3E-1+30N		<1				L4E-0+90N		11				
L3E-1+20N		5				L4E-0+80N		1				
L3E-1+10N		<1				L4E-0+70N		3				
L3E-1+00N		4				L4E-0+60N		4				
L3E-0+80N		<1				L4E-0+50N		10				



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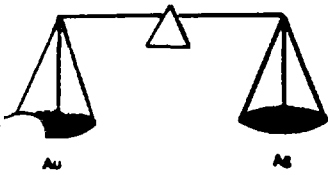
Kenora Gold Occurrences Ltd

ASSAY CERTIFICATE

Date: Dec. 8, 1988.

Sample No.	Description	oz/ton Au	oz/ton Ag
1 15763	RAJAH DEFORMATION ZONE GRAB	.16	
2 64		.02	
3 65		.02	
4 66	PRINCESS DDH KGPS-88-12	.01	
5 88-1	KGRT' RAJAH DEFORMATION ZONE GRAB	.02	
6 2	" ——— " ———	.01	
7 3	" ——— " ———	Trace	
8 4	" ——— " ———	.02	
9 5	" ——— " ———	.02	
10 88-54	KGBS OLD SHAFT, 1200' N OF BLACK STURGEON	.01	
11 55	" SHAFT - GRAB SAMPLES FROM DUMP	.02	
12 56	" ——— " ———	.10	
13 57	" ——— " ———	.04	
14			
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Paul Okanski



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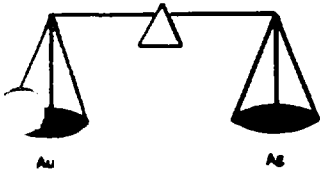
ASSAY CERTIFICATE

Date: Sept. 29, 1988.

Kenora Gold Occurances

Sample No.	Description	oz/ton Au	oz/ton Ag
1	#88-1 BLACK STURGEON EAST ZONE 4' CHIP SAMPLE	1.02	
2	2 " " " " COMPOSITE GRAB	1.20	
3	3 " " " " GRAB	.06	
4	4 " " " " "	13.08	
5	5 " " " " COMPOSITE GRAB	.78	
6	6 " " " " GRAB	.16	
7	7 " " " " COMPOSITE GRAB	.18	
8			
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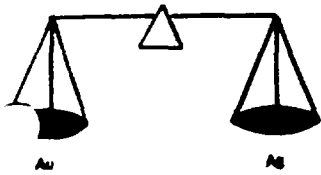
Kenora Bold Occurrences Inc.

ASSAY CERTIFICATE

Date: Oct. 8, 1988.

Sample No.	Description	oz/ton Au	oz/ton Ag
1 8	BSEH-88- BLACK STURGEON EAST ZONE CHIP	.52	
2 9	—— " ——	.06	
3 10	—— " ——	Trace	
4 11	—— " ——	.09	
5 12	—— " ——	.24	
6 13	—— " ——	.30	
7			
8			
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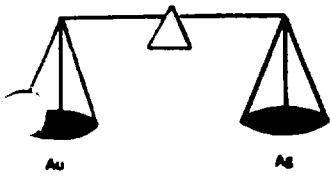
ASSAY CERTIFICATE

Date: Sept. 29, 1988.

Kenora Gold Occurances

Sample No.	Description	oz/ton Au	oz/ton Ag
1 #88-1	CHIP Main Vein	1.02	
2 2	" " "	1.20	
3 3	" " "	.06	
4 4	" " "	13.08	13.05
5 5	SHEARED ALT. Granodiorite	.78	.84
6 6	" " "	.16	
7 7	" " "	.18	
8 88-8	MAIN VEIN @ 40'	.52	
9 9	ALT. Granodiorite	.06	
10 10	ALT. Granodiorite	Tr	
11 11	SHEARED Granodiorite	.09	
12 12	SHEARED GRANODIORITE	.24	
13 13	MAIN Vein @ 20'	.30	
14	BLACK STURGEON EAST ZONE - GRAB SAMPLES		
15 1903	2nd Vein 50' FROM Main	.06	
16 1904	" " " " "	.05	
17			
18 1905	ALTERED Min. Granodiorite	.36	
19 1906	Vein	.30	
20 1907	"	.10	
21			
22 1901	MAIN Vein	1.20	
23 1902	" "	.10	
24			
25			

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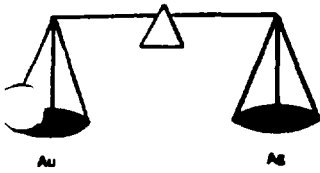
Kenora Gold Occurances Ltd.

ASSAY CERTIFICATE

Date: Oct. 13, 1988

Sample No.	Description	oz/ton Au	oz/ton Ag
1	15532 DRILL HOLE KGBS-88-1	Trace	
2	33 ———	"	
3	34 ———	"	
4	35 ———	"	
5	36 ———	"	
6	37 ———	"	
7	38 ———	"	
8	39 ———	"	
9	23543 BLACK STURGEON EAST ZONE TRENCH - GRAB SAMPLE	.01	
10	49 ———	.01	
11	50 ———	Trace	
12	51 ———	.02	
13	52 ———	.01	
14			
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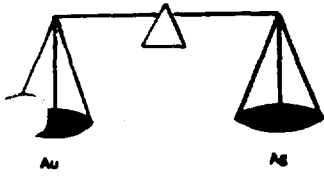
Kenora Gold Occurances Inc.

ASSAY CERTIFICATE

Date: Oct. 14, 1988.

Sample No.	Description	oz/ton Au	oz/ton Ag
1 15540	DRILL HOLE KGRS 88-1	Trace	
2 41	— " —	"	
3 42	— " —	"	
4 43	— " —	"	
5 KGRS-88-1		"	
6 2		"	
7 3		"	
8 15532	REJECTS DRILL CORE SAMPLE CHECKS	"	
9 33	" — " —	.01	
10 34	" — " —	.01	
11 35	" — " —	Trace	
12 36	" — " —	"	
13 37	" — " —	"	
14 38	" — " —	"	
15 39	" — " —	"	
16			
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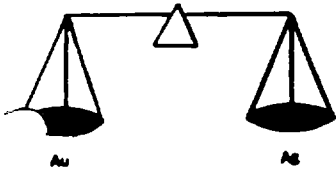
ASSAY CERTIFICATE

Date: Oct. 17, 1988.

Kemnora Gold Occurances Inc,

Sample No.	Description	oz/ton Au	oz/ton Ag
1 15544	BLACK STURGEON EAST ZONE DRILL HOLE K6BS-88-2	Trace	
2 45	— " —	"	
3 46	— " —	"	
4 47	— " —	"	
5 48	— " —	"	
6 49	— " —	.01	
7 50	— " —	Trace	
8 51	— " —	.02	
9 52	— " —	Trace	
10 53	— " —	06	
11 54	— " —	.02	
12 55	— " —	Trace	
13 56	— " —	"	
14 57	— " —	"	
15			
16			
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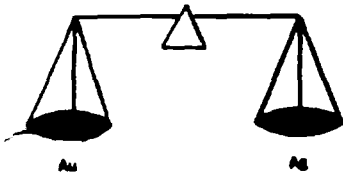
Kenora Gold Occurances Inc,

ASSAY CERTIFICATE

Date: Oct. 20, 1988.

Sample No.	Description	oz/ton Au	oz/ton Ag
1 15558	BLACK STURGEON EAST ZONE DRILL HOLE K6BS-88-2	Trace	
2 59	—— " ——	"	
3 60	—— " ——	"	
4 61	—— " ——	"	
5 62	—— " ——	"	
6 63	—— " ——	.06	
7 64	—— " ——	Trace	
8 65	—— " ——	"	
9 66	—— " ——	"	
10 67	—— " ——	"	
11 68	—— " ——	"	
12 69	BLACK STURGEON SHAFT ZONE DRILL HOLE K6BS-88-7	"	
13 70	—— " ——	.10	
14 71	—— " ——	Trace	
15 72	—— " ——	.06	
16 73	—— " ——	Trace	
17 74	—— " ——	"	
18 75	—— " ——	"	
19 76	—— " ——	"	
20 77	—— " ——	"	
21 78	—— " ——	"	
22 15580	DRILL HOLE K6BS-88-9	"	
23 81	—— " ——	"	
24 82	—— " ——	"	
25 83	—— " ——	"	

ASSAYER: *Paul Okanski*



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PAUL OKANSKI, Assayer
Box 253, Cochenour, Ontario POV 1L0

Kenora Gold Occurances Inc,

ASSAY CERTIFICATE

Date: Oct. 20, 1988.

Sample No.	Description	oz/ton Au	oz/ton Ag
1 15584	BLACK STURGEON SHAFT ZONE DRILL HOLE K6BS-88-9	Trace	
2 85	— 11 —	"	
3 86	— 11 —	"	
4 87	— 11 —	"	
5 88	— 11 —	"	
6 89	— 11 —	"	
7 90	— 11 —	"	
8 91	— 11 —	"	
9 92	— 11 —	"	
10 93	— 11 —	"	
11 94	— 11 —	"	
12 95	BLACK STURGEON SHAFT ZONE DRILL HOLE K6BS-88-8	"	
13 96	— 11 —	"	
14 97	— 11 —	.22	
15 98	— 11 —	Trace	
16 99	— 11 —	"	
17 15600	— 11 —	"	
18 01	— 11 —	"	
19 02	— 11 —	"	
20 03	— 11 —	"	
21 04	— 11 —	"	
22 05	— 11 —	"	
23 06	BLACK STURGEON EAST ZONE DRILL HOLE K6BS-88-4	"	
24 07	— 11 —	"	
25 08	— 11 —	"	

Assayer: *Paul Okanski*



W3901-86

Type of Survey(s): **CONSULTANTS REPORT - GEOCHEM GEOPHYSICS ASSAYS TRENCHING DRILLING** Township or Area: **HAYCOCK TWP M1987**

Claim Holder(s): **GEORGE R. ZEBRUCK 2.12345** Prospector's Licence No.: **H10002**

Address: **RR#1 AIRPORT RD. KENORA ONT. P9N3W7**

Survey Company: **KENORA GOLD OCCURRENCES INC.** Date of Survey (from & to): **21 09 88 31 01 89** Total Miles of line Cut: _____

Name and Address of Author (of Geo-Technical report): _____

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
Airborne Credits	Geochemical	Days per Claim
	Electromagnetic	
	Magnetometer	
Note: Special provisions credits do not apply to Airborne Surveys.	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
K	899595	40			
	899596	40			
	899597	40			
	899598	40			
	899599	40			
	899600	40			
	1003736	40			
	1003737	40			
	1003738	40			
	1003739	40			
	1003740	40			
	1003741	40			
	1019023	60			

RECEIVED

APR 12 1989

MINING LANDS SECTION

KENORA MINING DIV
RECEIVED
MAR 31 1989
AM 7:00 PM
ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES OFFICE
MAY 19 1989

Expenditures (excludes power stripping)

Type of Work Performed: **CONSULTANTS REPORT + ASSAYS**

Performed on Claim(s): **REPORT COVERS ALL CLAIMS**

ASSAYS ON 899597 899598 899595

Calculation of Expenditure Days Credits

Total Expenditures: **\$ 8107.50** ÷ Total Days Credits: **15** = **540.5**

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

RECEIVED 899595 Total number of mining claims covered by this report of work: **13**

For Office Use Only

Total Days Cr. Recorded: **540** Date Recorded: **89 MAR 31** Mining Recorder: *[Signature]*

Date Approved as Recorded: **18 May 89** Branch Director: *[Signature]*

R.M.

Date: **March 31/89** Recorded Holder or Agent (Signature): *[Signature]*

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true

Name and Postal Address of Person Certifying: **GEORGE R. ZEBRUCK RR#1 AIRPORT RD. KENORA ONTARIO**

Date Certified: **March 31/89** Certified by (Signature): *[Signature]*



Ministry of Northern Development and Mines

Report of Work (Geophysical, Geological, Geochemical and Expenditures)

DOCUMENT NO. W8901-97

Instructions: - Please type or print. - If number of mining claims traversed exceeds space on this form, attach a list. Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns. - Do not use shaded areas below.

Mining Act

MINING LANDS

Type of Survey(s): **ASSAYS** **2. 12345** Township or Area: **JAFFRAY M1992**

Claim Holder(s): **GEORGE R. ZEBRUCK** Prospector's Licence No.: **H10002**

Address: **RR#1 AIRPORT RD. KENORA ONT P9N3W7**

Survey Company: **KENORA GOLD OCCURRENCES INC** Date of Survey (from & to): **01 04 88 30 07 88** Total Miles of line Cut: _____

Name and Address of Author (of Geo-Technical report): _____

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
K	895621	2.4			
	895622	1.9			
	895623	1.9			
	1003745	1.9			
	1017839	1.9			
	1017840	1.9			
	1017924	1.9			
	1017925	1.9			
	1017926	1.9			
	1017927	1.9			
	1017928	1.9			
	1017929	1.9			
	1017930	1.9			
	1017931	1.9			
	1017976	1.9			
	1017977	1.9			

RECEIVED

APR 12 1989

MINING LANDS SECTION

Expenditures (excludes power stripping)

Type of Work Performed: **ASSAYS**

Performed on Claim(s): **895621, 895622, 895623**

1017939, 1017940

Calculation of Expenditure Days Credits

Total Expenditures: **\$ 464.00** ÷ **15** = **30.9** Total Days Credits

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

895621

Total number of mining claims covered by this report of work. **14**

For Office Use Only

Total Days Cr. Recorded: **30.9** Date Recorded: **Apr 10/89** Mining Record: **Stacy Rivett**

Date Approved: **12 May 89** Branch Director: **[Signature]**

Date: **Apr 10/89** Recorded Holder or Agent (Signature): **[Signature]**

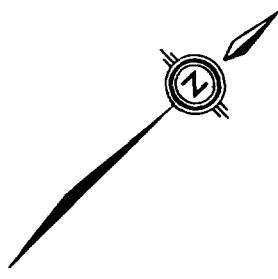
Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

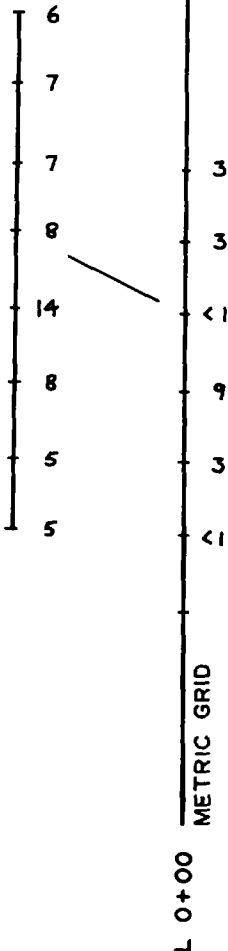
Name and Postal Address of Person Certifying: **GEORGE R. ZEBRUCK RR#1 AIRPORT RD. KENORA ONT. P9N3W7**

Date Certified: **Apr 10/89** Certified by (Signature): **[Signature]**

ISLAND
LAKE



PROJECTED TRACE OF
BLACK STURGEON VEIN
(250°)

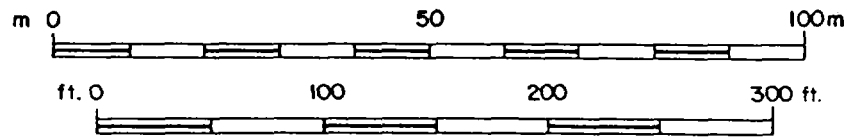


— 2+00 S

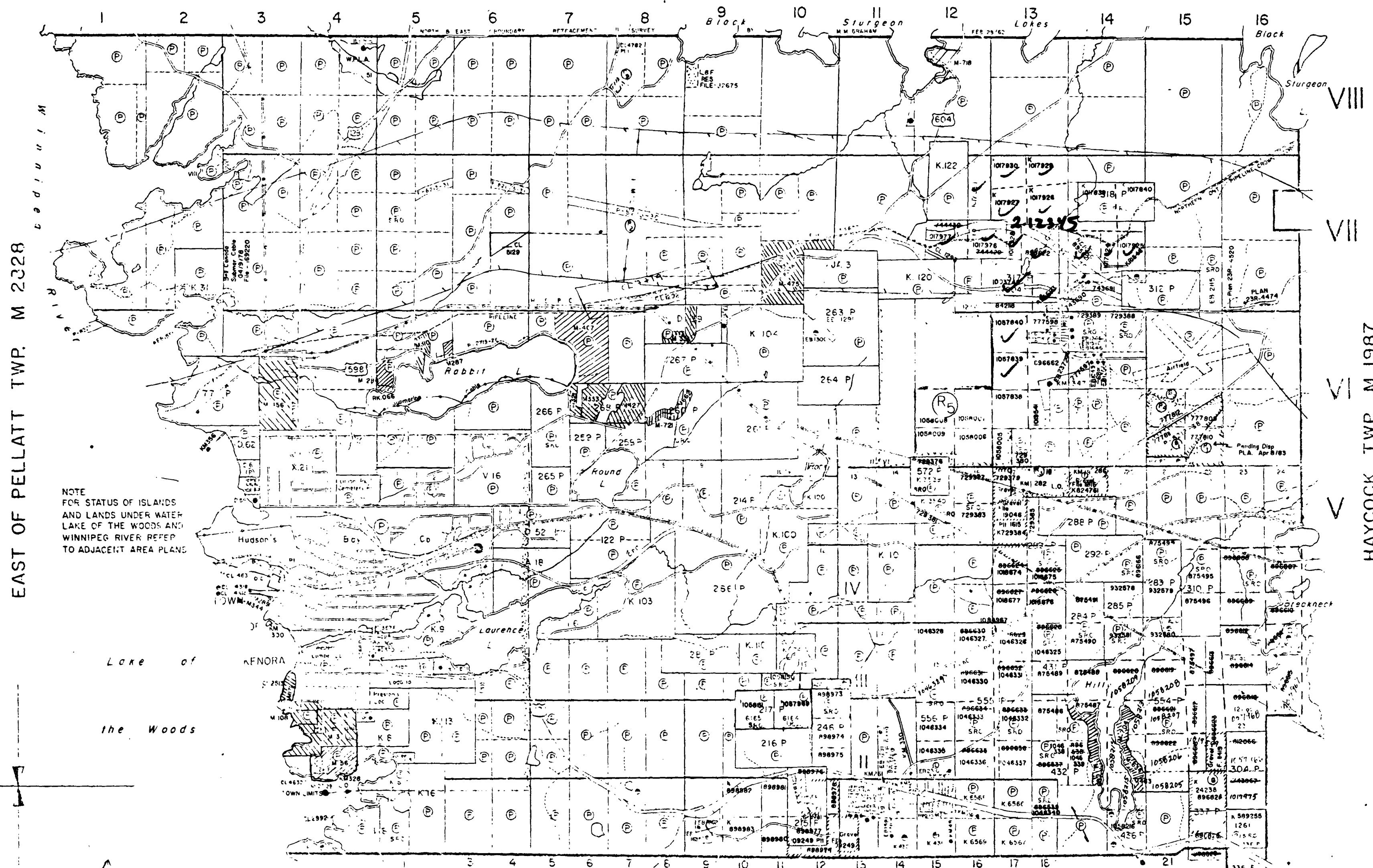
2.12345

NOTE : RESULTS = ppb Au IN HUMUS

KENORA GOLD OCCURRENCES INC.		
PRINCESS/BLACK STURGEON PROPERTY		
Haycock Township, District of Kenora Northwestern Ontario		
GEOCHEMICAL SAMPLING GOLD IN HUMUS EAST ZONE		
DATE: JAN. 1989	SCALE: 1 : 1000	FIGURE# <u> 1 </u>



MELICK TWP. M.2021



EAST OF PELLATT TWP. M 2328

HAYCOCK TWP. M.1987

NOTE FOR STATUS OF ISLANDS AND LANDS UNDER WATER LAKE OF THE WOODS AND WINNIPEG RIVER REFER TO ADJACENT AREA PLANS

400' surface rights reservation along the shores of all lakes and rivers.

FLOODING RIGHTS RESERVED, ON WINNIPEG RIVER AND ALCOCK LAKE TO CONTOUR ELEV. 1031.20 G.S.C. JAN 23/40 FILE- 4922 vol. 5

H.E.P.C flooding rights on Winnipeg River and Alcock Lake to contour elev. 1045 G.S.C. W.P.L.A. 51 File 12999

SAND and GRAVEL
 M.T.C. Gravel Pit .D.S. File 97164
 M.T.C. GRAVEL PIT .D.S. File 57027
 QUARRY PERMIT

AREAS WITHDRAWN FROM STAKING

S.R. - SURFACE RIGHTS	M.R. - MINING RIGHTS			
Section	Order No	Date	Disposition	File
43(R.S.O. 1970)	W.22/78	2/6/78	S.P.	108521
43(R.S.O. 1970)	W.1/81	22/1/81	S.R.A.M.R.	11816
	V.N.W.R.5/83	8/3/04/05	S.R.	
36(R.S.O. 1960)	W.38/88	08/30/88	S.P.	10556
36(R.S.O. 1960)	W.37/88	08/30/88	S.R.A.M.R.	10655

LEGEND

PATENTED L.A.A.	(Symbol)
PATENTED FOR SURFACE RIGHTS ONLY	(Symbol)
LEASE	(Symbol)
LEASE OF OCCUPATION	(Symbol)
CROWN LAND SALES	(Symbol)
ORDER IN COUNCIL	(Symbol)
CANCELLED	(Symbol)
NOT THROUGH OPEN FOR STAKING	(Symbol)
MINING RIGHTS ONLY	(Symbol)
SURFACE RIGHTS ONLY	(Symbol)
HIGHWAY 6 ROUTE NO.	(Symbol)
ROADS	(Symbol)
TRAILS	(Symbol)
RAILWAYS	(Symbol)
POWER LINES	(Symbol)
MARSH OR MUSKIEG	(Symbol)
MINES	(Symbol)

+ Used only with summer resort locations or when space is utilized

RECEIVED
 SEP 22 1988
 AM 7:18 10:11 12:1 2:3 4:5 6:8 PM

TOWNSHIP OF JAFFRAY
 STRICT OF KENORA

KENORA MINING DIVISION
 SCALE: 1 INCH = 40 CHAINS (1/2 MILE)

PLAN NO. M.1992

ONTARIO DEPARTMENT OF MINES AND NORTHERN AFFAIRS

EFFECTIVE JULY 1987
 CLEARWATER BAY (Lake of the Woods) M.2062



STONE BAY (Lake of the Woods) M.1815

South

North

BL 0

0+50 N

1+00 N

1+50 N

2+00 N

2+50 N

SURFACE

SURFACE TRACE OF
BLACK STURGEON VEIN

88-7
88-8
(6' W)
0.02
2.3
0.09
3.3

0.10
1.8
0.08
1.7

0.22
2.2

88-7
(127')

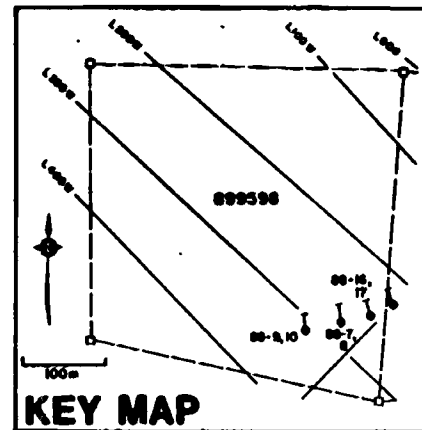
88-8
(148')

LEGEND

- 1 Granodiorite
- 2 Sheared granodiorite
- 3 Quartz vein
- 4 Diorite
- 5 Sheared & altered diorite
- 6 Intermediate dyke
- 7 Mafic volcanic
- 8 Granite aplite
- 9 Sheared & altered mafic volcanic
- 10 Felsic sill
- 11 Calcite vein & Magnetite, sulphides
- 12 Gabbro
- 13 Andesite fragmental
- 14 Carbonatized andesite fragmental
- 15 Dacitic tuff

0.10 oz/ton Au
4.2 sample length (feet)

2.12345



52E165W0047 2.12345 JAFFRAY

210

SCALE 1" = 20'



KENORA GOLD OCCURRENCES INC.

PRINCESS/BLACK STURGEON PROPERTY

Haycock Township, District of Kenora
Northwestern Ontario

**Diamond Drill Hole
Cross-Section 15+50W
DDH# 88-7,88-8**

LOOKING WEST

DATE JAN 989 SCALE 1"=20' FIGURE # 13

South

North

BL 0

0+50 N

1+00 N

1+50 N

2+00 N

2+50 N

SURFACE

SURFACE TRACE OF BLACK STURGEON VEIN

88-9
88-10
(26' W)

0.03
4.6

88-9
(147')

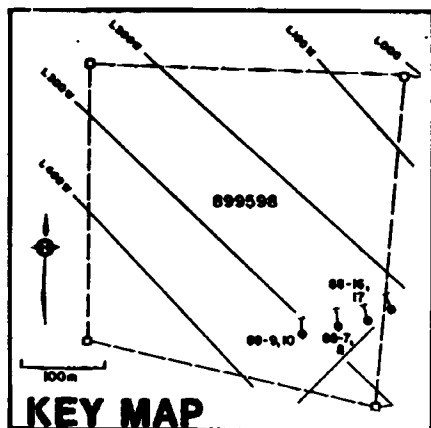
88-10
(158')

LEGEND

- 1 Granodiorite
- 2 Sheared granodiorite
- 3 Quartz vein
- 4 Diorite
- 5 Sheared & altered diorite
- 6 Intermediate dyke
- 7 Mafic volcanic
- 8 Granite aplite
- 9 Sheared & altered mafic volcanic
- 10 Felsic sill
- 11 Calcite vein & Magnetite, sulphides
- 12 Gabbro
- 13 Andesite fragmental
- 14 Carbonatized andesite fragmental
- 15 Dacitic tuff

0.10 oz/ton Au
4.2 sample length (feet)

2. 12345



220

SCALE 1" = 20'



KENORA GOLD OCCURRENCES INC.
PRINCESS/BLACK STURGEON PROPERTY
 Haycock Township, District of Kenora
 Northwestern Ontario

Diamond Drill Hole
Cross-Section 16+50W
DDH# 88-9,88-10

LOOKING WEST

DATE JAN 1989 SCALE 1" = 20' FIGURE # 14

South

North

BL 0

0+50 N

1+00 N

1+50 N

2+00 N

2+50 N

SURFACE

SURFACE TRACE OF
BLACK STURGEON VEIN

88-16
88-17
(14'E)

0.01
2.0

0.01
1.1

0.01
2.5

0.01
2.0

0.01
2.1

88-16
(107')

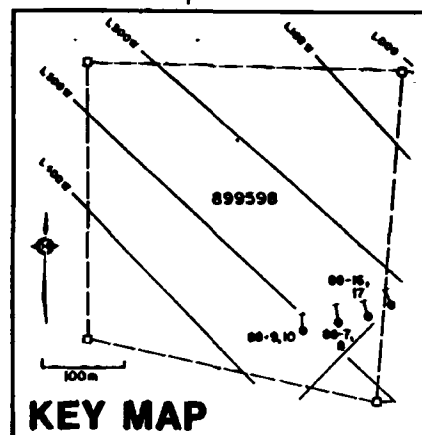
88-17
(135')

LEGEND

- 1 Granodiorite
- 2 Sheared granodiorite
- 3 Quartz vein
- 4 Diorite
- 5 Sheared & altered diorite
- 6 Intermediate dyke
- 7 Mafic volcanic
- 8 Granite aplite
- 9 Sheared & altered mafic volcanic
- 10 Felsic sill
- 11 Calcite vein & Magnetite, sulphides
- 12 Gabbro
- 13 Andesite fragmental
- 14 Carbonatized andesite fragmental
- 15 Dacitic tuff

0.10 oz/ton Au
4.2 sample length (feet)

2.12345



52E16SW0047 2.12345 JAFFRAY

230

SCALE 1" = 20'



KENORA GOLD OCCURRENCES INC.

PRINCESS/BLACK STURGEON
PROPERTY

Haycock Township, District of Kenora
Northwestern Ontario

Diamond Drill Hole
Cross-Section 14+50W
DDH# 88-16,88-17

LOOKING WEST

DATE JAN 1985

SCALE 1" = 20'

FIGURE # 12

South

North

BL 0

0+50 N

1+00 N

1+50 N

2+00 N

2+50 N

SURFACE

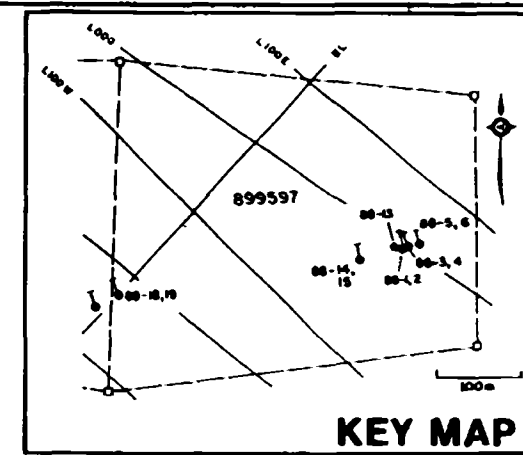
SURFACE TRACE OF
BLACK STURGEON VEIN

88-18
88-19

-50'

-100'

-150'



LEGEND

- 1 Granodiorite
- 2 Sheared granodiorite
- 3 Quartz vein
- 4 Diorite
- 5 Sheared & altered diorite
- 6 Intermediate dyke
- 7 Mafic volcanic
- 8 Granite aplite
- 9 Sheared & altered mafic volcanic
- 10 Felsic sill
- 11 Calcite vein & Magnetite, sulphides
- 12 Gabbro
- 13 Andesite fragmental
- 14 Carbonatized andesite fragmental
- 15 Dacitic tuff

0.10 oz/ton Au
4.2 sample length (feet)

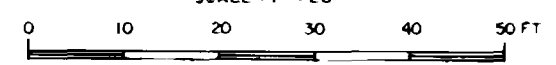
2. 12345



52E16SW0047 2.12345 JAFFRAY

240

SCALE 1" = 20'



KENORA GOLD OCCURRENCES INC.
PRINCESS/BLACK STURGEON PROPERTY
 Haycock Township, District of Kenora
 Northwestern Ontario

**Diamond Drill Hole
 Cross-Section 13+50W
 DDH# 88-18,88-19**

LOOKING WEST

DATE JAN 1989 SCALE 1" = 20' FIGURE# 11

South

North

6+00N
(metric)

5+80N
(metric)

SURFACE

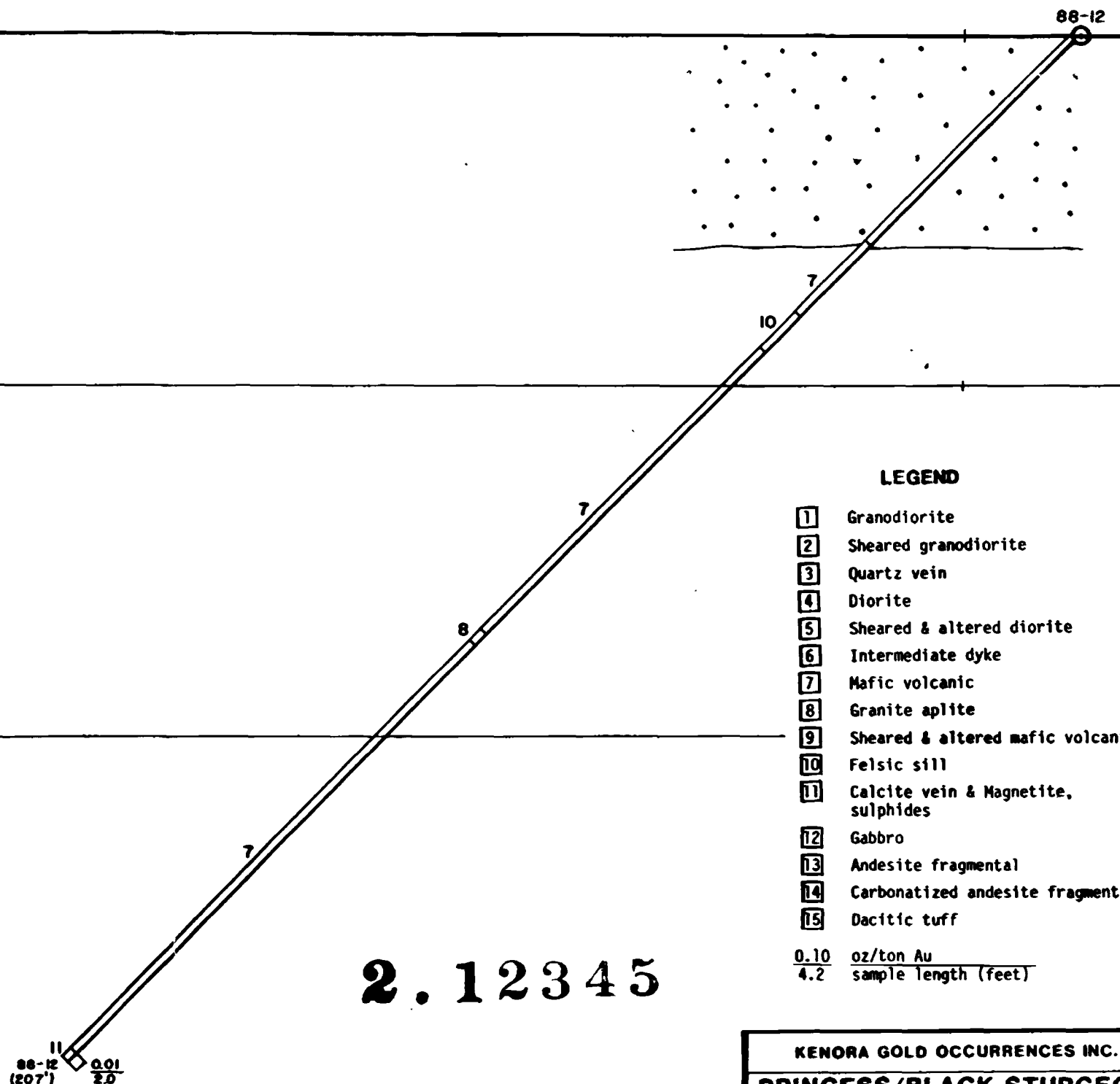
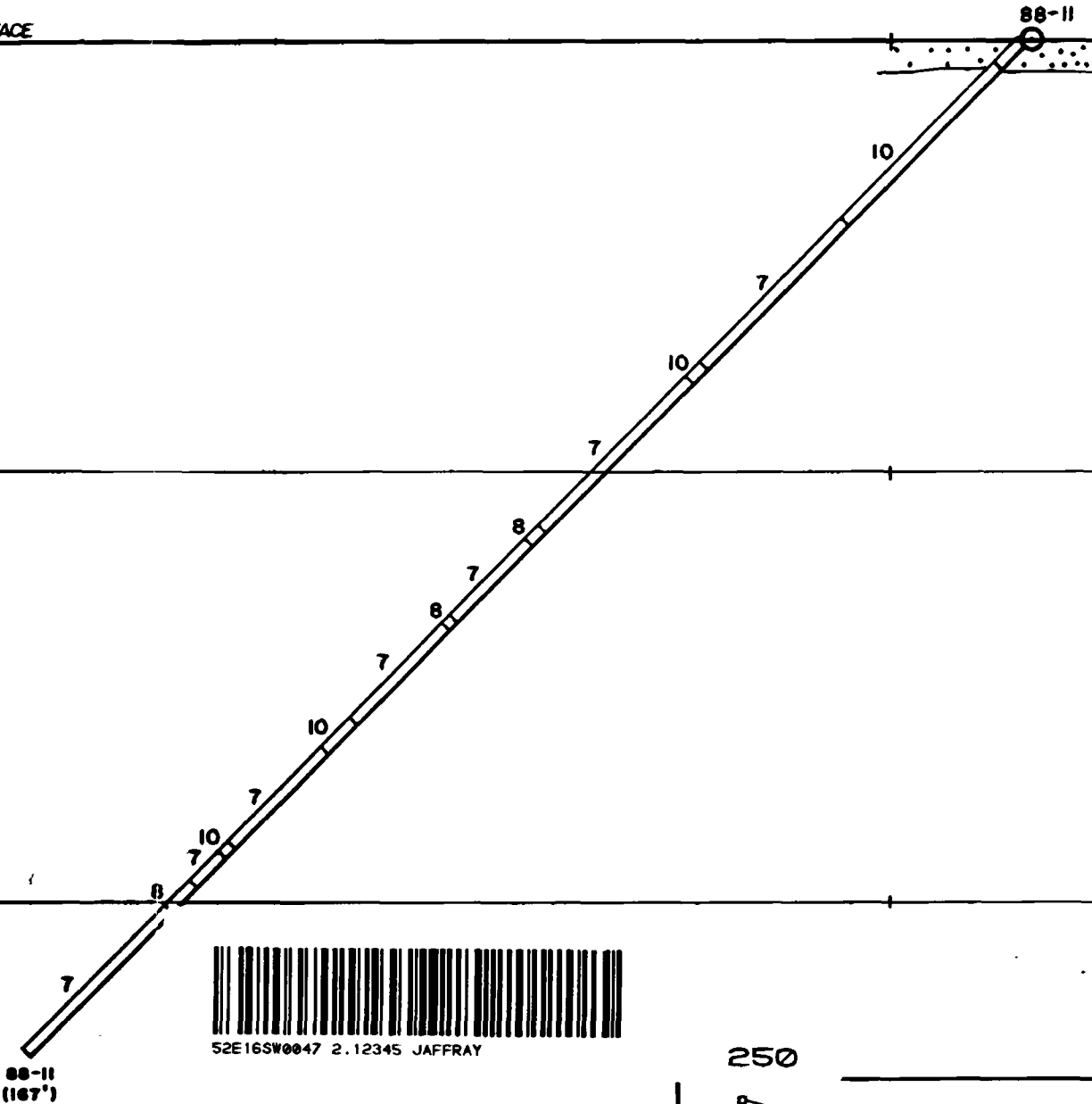
88-11

88-12

-50'

-100'

-150'



LEGEND

- 1 Granodiorite
- 2 Sheared granodiorite
- 3 Quartz vein
- 4 Diorite
- 5 Sheared & altered diorite
- 6 Intermediate dyke
- 7 Mafic volcanic
- 8 Granite aplite
- 9 Sheared & altered mafic volcanic
- 10 Felsic sill
- 11 Calcite vein & Magnetite, sulphides
- 12 Gabbro
- 13 Andesite fragmental
- 14 Carbonatized andesite fragmental
- 15 Dacitic tuff

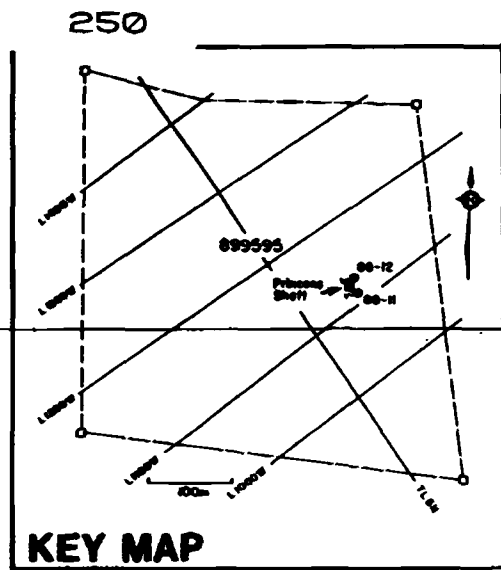
0.10 oz/ton Au
4.2 sample length (feet)

2.12345

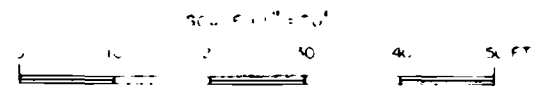


88-11
(167')

88-12
(207')



KEY MAP



KENORA GOLD OCCURRENCES INC.

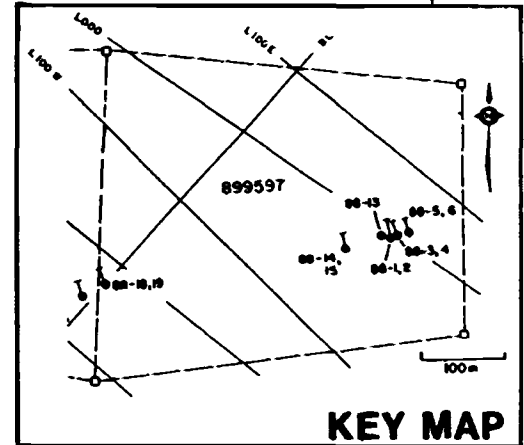
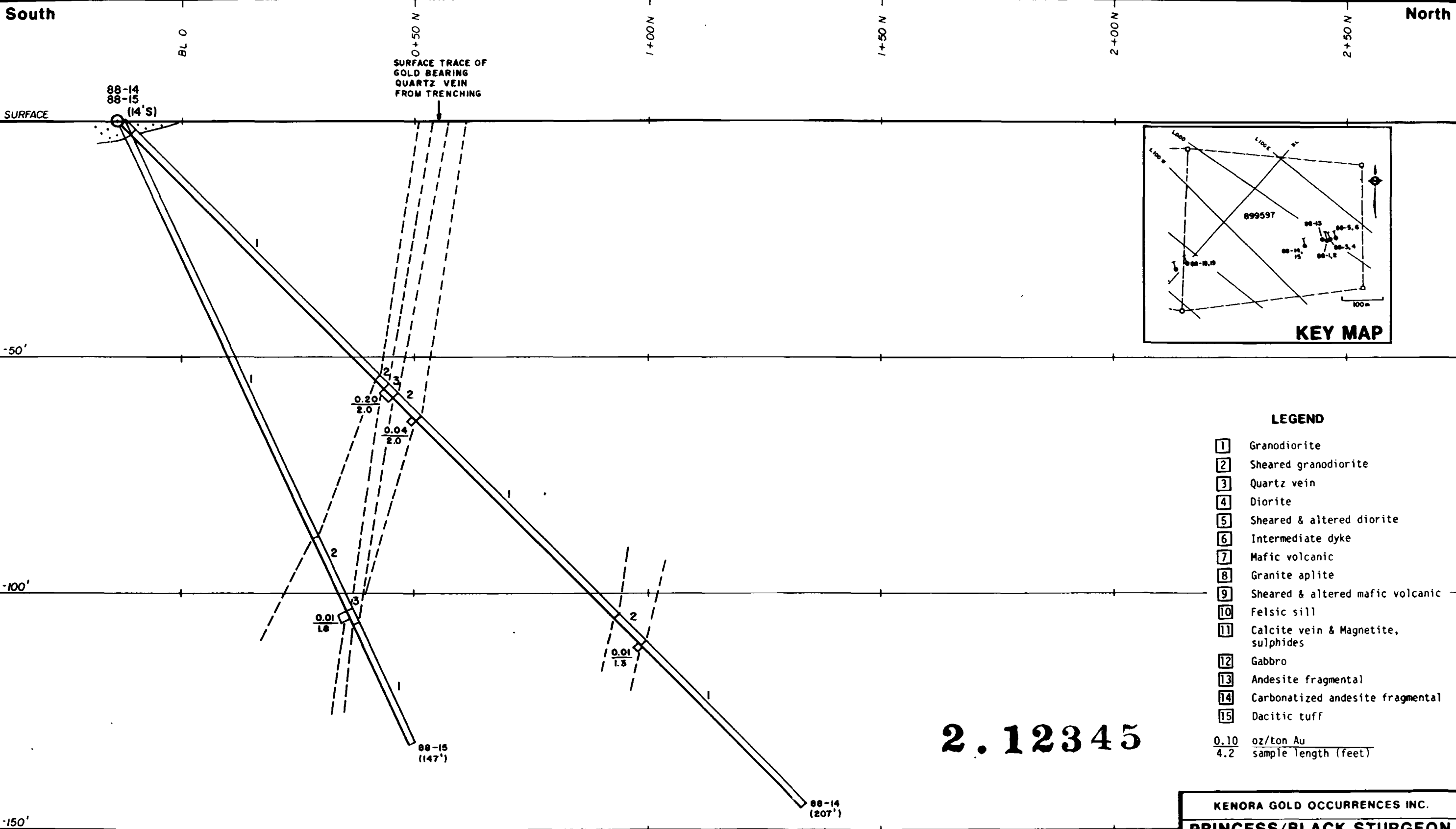
PRINCESS/BLACK STURGEON PROPERTY

Haycock Township, District of Kenora
Northwestern Ontario

Diamond Drill Hole
Cross-Section 11+90W

DDH# 88-11, 88-12

(metric grid)
LOOKING WEST



LEGEND

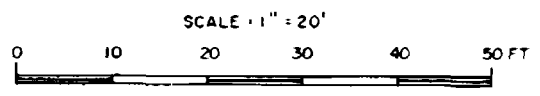
- 1 Granodiorite
- 2 Sheared granodiorite
- 3 Quartz vein
- 4 Diorite
- 5 Sheared & altered diorite
- 6 Intermediate dyke
- 7 Mafic volcanic
- 8 Granite aplite
- 9 Sheared & altered mafic volcanic
- 10 Felsic sill
- 11 Calcite vein & Magnetite, sulphides
- 12 Gabbro
- 13 Andesite fragmental
- 14 Carbonatized andesite fragmental
- 15 Dacitic tuff

0.10 oz/ton Au
4.2 sample length (feet)

2.12345



260



KENORA GOLD OCCURRENCES INC.
PRINCESS/BLACK STURGEON PROPERTY
 Haycock Township, District of Kenora
 Northwestern Ontario

**Diamond Drill Hole
 Cross-Section 3+50 W
 DDH# 88-14,88-15**

LOOKING WEST

DATE JAN 1989 SCALE: 1" = 20' FIGURE# 9

South

North

BL 0

0+50 N

1+00 N

1+50 N

2+00 N

2+50 N

SURFACE TRACE OF GOLD BEARING QUARTZ VEIN FROM TRENCHING

SURFACE

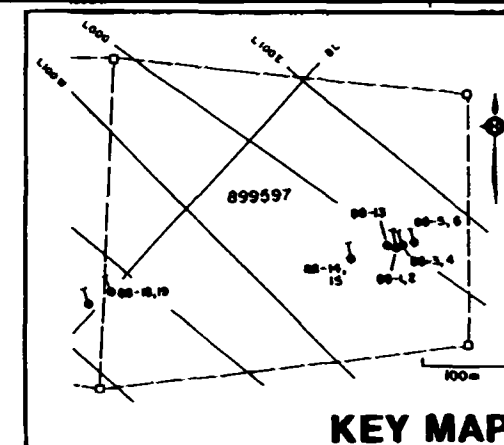
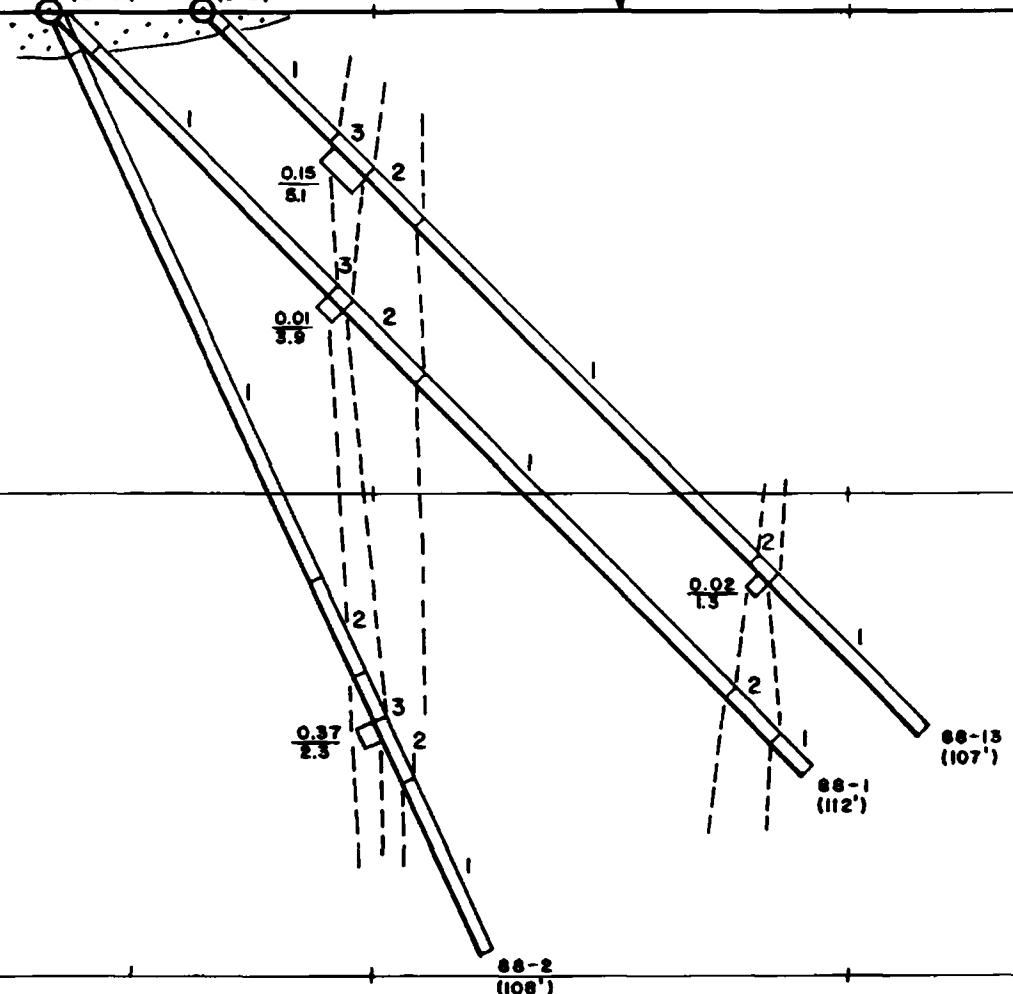
88-1
88-2
(21'E)

88-13
(8'E)

-50'

-100'

-150'



LEGEND

- 1 Granodiorite
- 2 Sheared granodiorite
- 3 Quartz vein
- 4 Diorite
- 5 Sheared & altered diorite
- 6 Intermediate dyke
- 7 Mafic volcanic
- 8 Granite aplite
- 9 Sheared & altered mafic volcanic
- 10 Felsic sill
- 11 Calcite vein & Magnetite, sulphides
- 12 Gabbro
- 13 Andesite fragmental
- 14 Carbonatized andesite fragmental
- 15 Dacitic tuff

0.10 oz/ton Au
4.2 sample length (feet)

2.12345



52E16SW0047 2.12345 JAFFRAY

270

SCALE: 1" = 20'



KENORA GOLD OCCURRENCES INC.

PRINCESS/BLACK STURGEON PROPERTY

Haycock Township, District of Kenora
Northwestern Ontario

Diamond Drill Hole
Cross-Section 3+00 W
DDH# 88-1,88-2,88-13

LOOKING WEST

DATE JAN 1989

SCALE: 1" = 20'

FIGURE# 8

South

North

BL 0

0+50 N

1+00N

1+50 N

2+00N

2+50 N

SURFACE TRACE OF GOLD BEARING QUARTZ VEIN FROM TRENCHING

88-3
88-4
SURFACE (8'E)

-50'

-100'

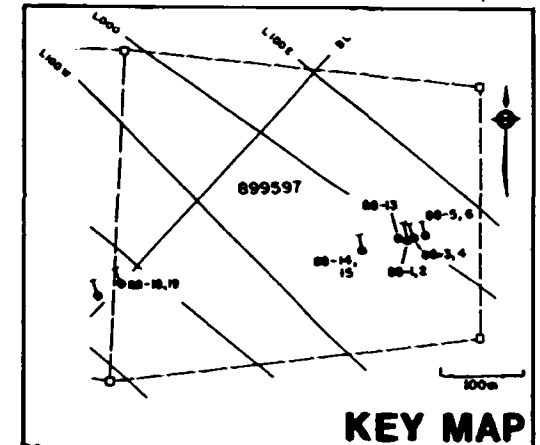
-150'

0.08
2.0

0.06
1.5

88-3
(117')

88-4
(148')



LEGEND

- 1 Granodiorite
- 2 Sheared granodiorite
- 3 Quartz vein
- 4 Diorite
- 5 Sheared & altered diorite
- 6 Intermediate dyke
- 7 Mafic volcanic
- 8 Granite aplite
- 9 Sheared & altered mafic volcanic
- 10 Felsic sill
- 11 Calcite vein & Magnetite, sulphides
- 12 Gabbro
- 13 Andesite fragmental
- 14 Carbonatized andesite fragmental
- 15 Dacitic tuff

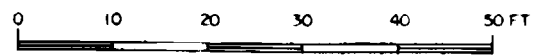
0.10 oz/ton Au
4.2 sample length (feet)

2. 12345



280

SCALE 1" = 20'

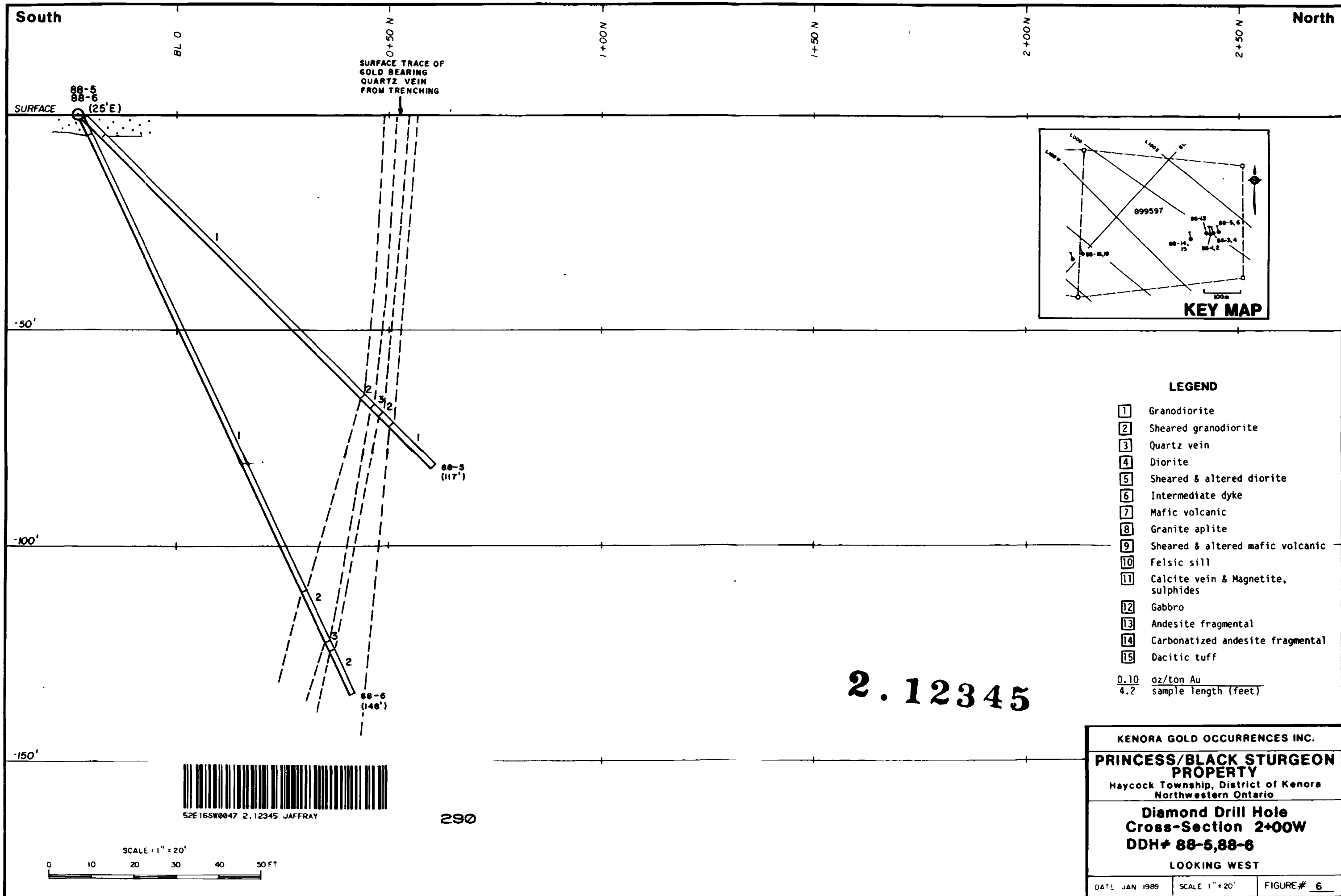


KENORA GOLD OCCURRENCES INC.
PRINCESS/BLACK STURGEON PROPERTY
 Haycock Township, District of Kenora
 Northwestern Ontario

**Diamond Drill Hole
 Cross-Section 2+50 W
 DDH# 88-3,88-4**

LOOKING WEST

DATE JAN 1989 SCALE 1" = 20' FIGURE# 7



South

North

BL 0

0+50 N

1+00 N

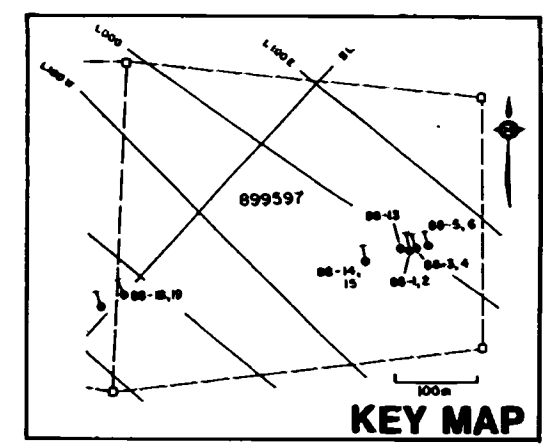
1+50 N

2+00 N

2+50 N

88-5
88-6
SURFACE (25'E)

SURFACE TRACE OF
GOLD BEARING
QUARTZ VEIN
FROM TRENCHING



LEGEND

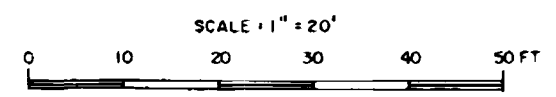
- 1 Granodiorite
- 2 Sheared granodiorite
- 3 Quartz vein
- 4 Diorite
- 5 Sheared & altered diorite
- 6 Intermediate dyke
- 7 Mafic volcanic
- 8 Granite aplite
- 9 Sheared & altered mafic volcanic
- 10 Felsic sill
- 11 Calcite vein & Magnetite, sulphides
- 12 Gabbro
- 13 Andesite fragmental
- 14 Carbonatized andesite fragmental
- 15 Dacitic tuff

0.10 oz/ton Au
4.2 sample length (feet)

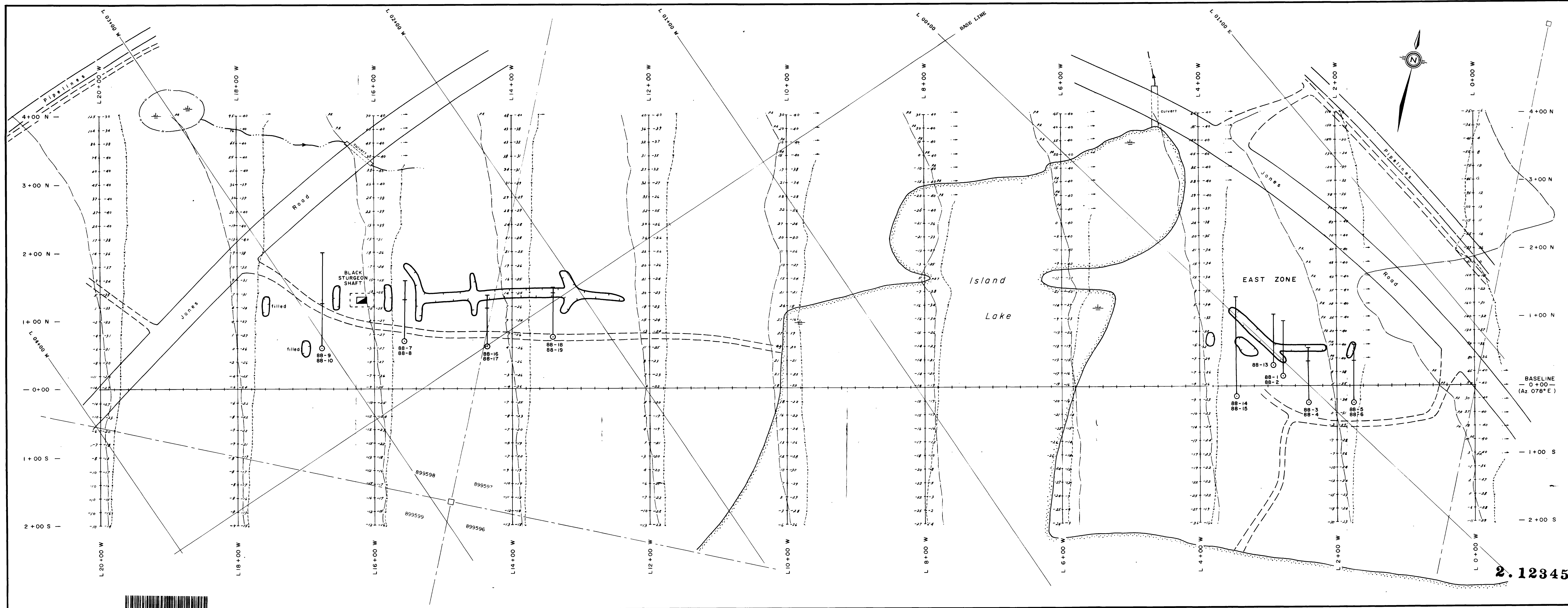
2.12345



290



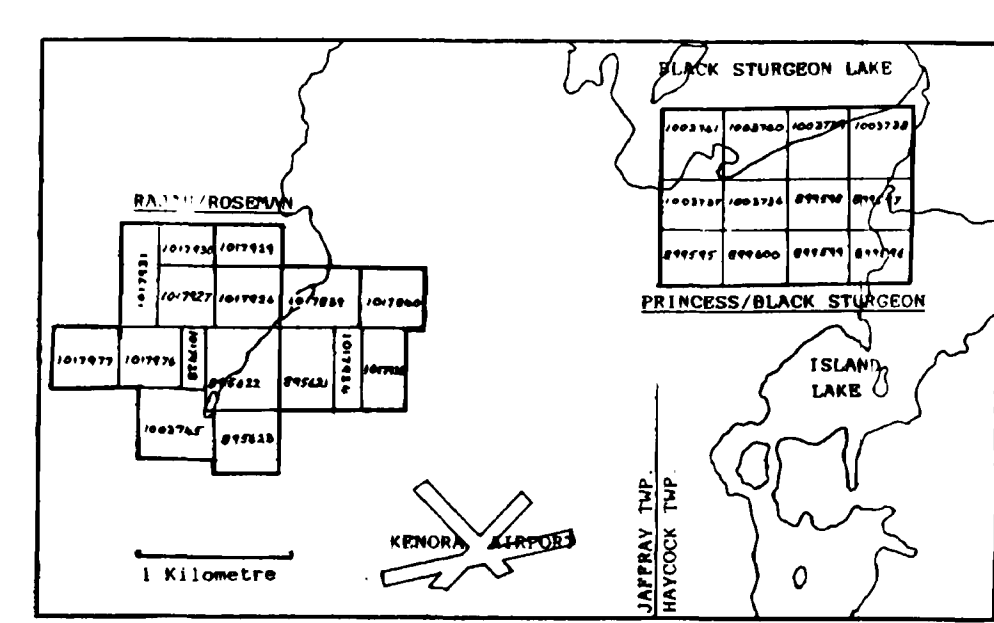
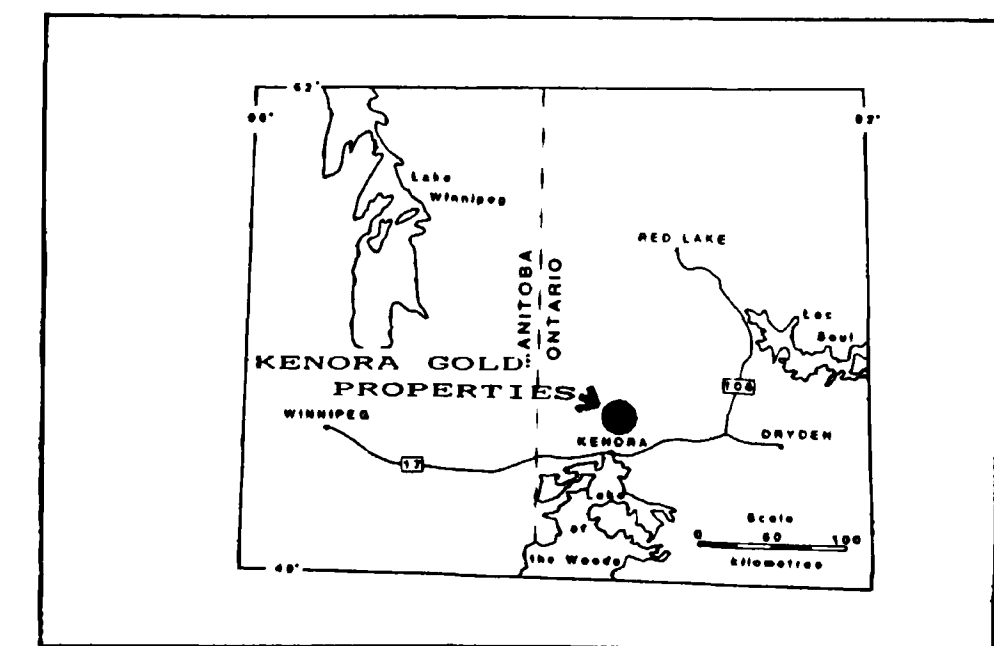
KENORA GOLD OCCURRENCES INC.
PRINCESS/BLACK STURGEON PROPERTY
 Haycock Township, District of Kenora
 Northwestern Ontario
**Diamond Drill Hole
 Cross-Section 2+00W
 DDH# 88-5,88-6**
 LOOKING WEST
 DATE JAN 1989 SCALE 1" = 20' FIGURE# 6



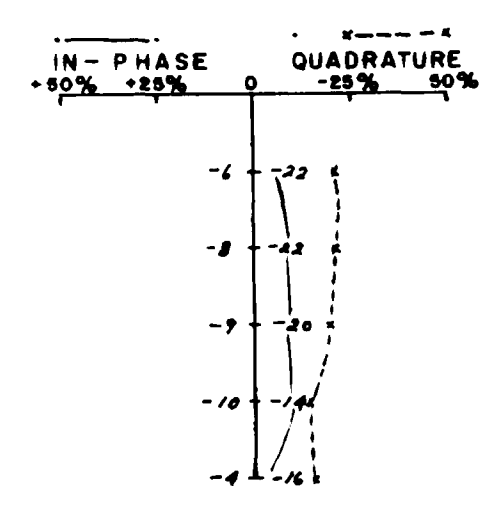
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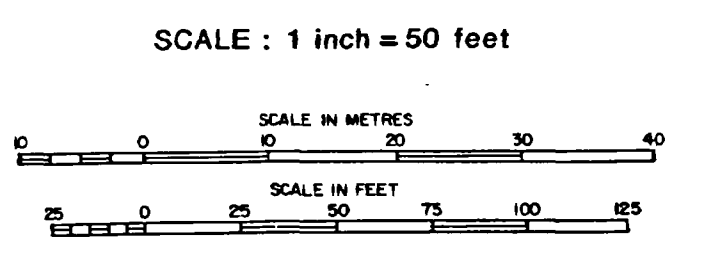
300



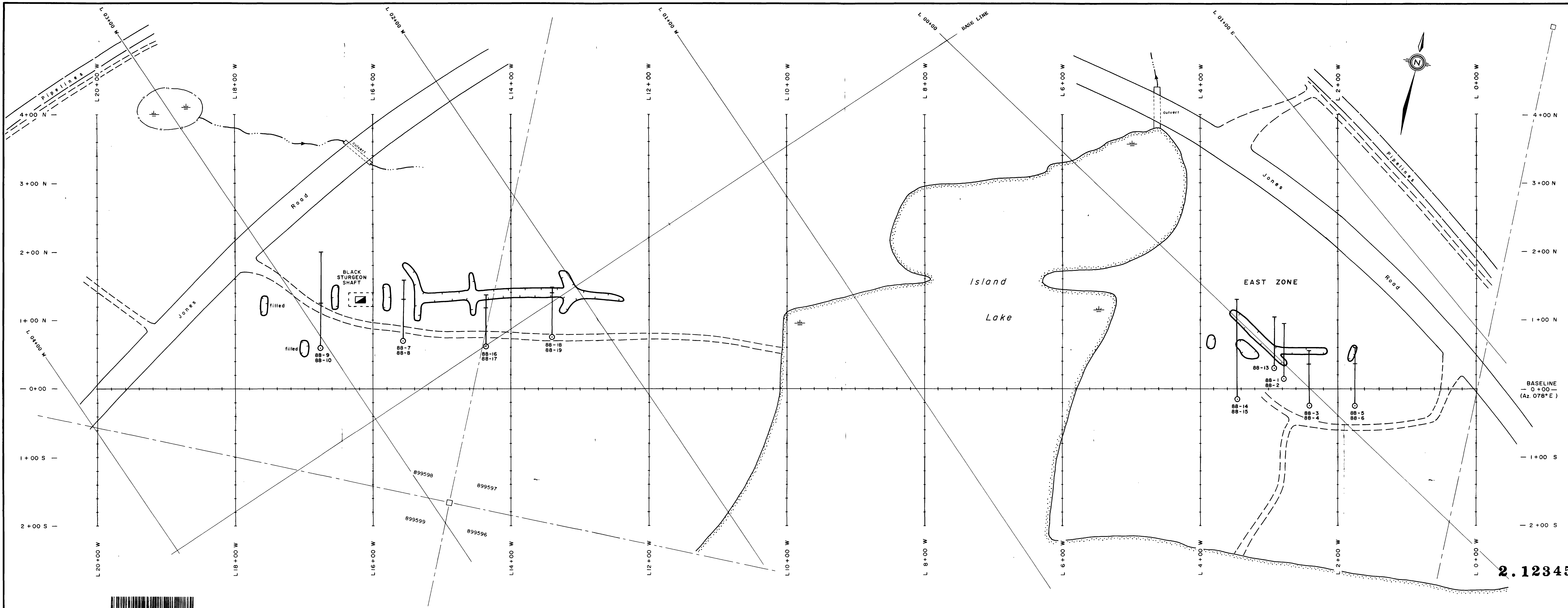
LEGEND



NOTE:
 ALL READINGS TAKEN FACING NORTH
 PR - POOR READING DUE TO HIGH
 QUADRATURE: POOR NULL (pipeline)
 TRANSMITTER: NAA Cutler, Maine, 4.0 KHz



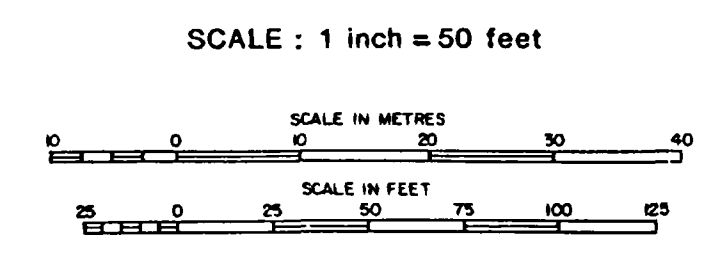
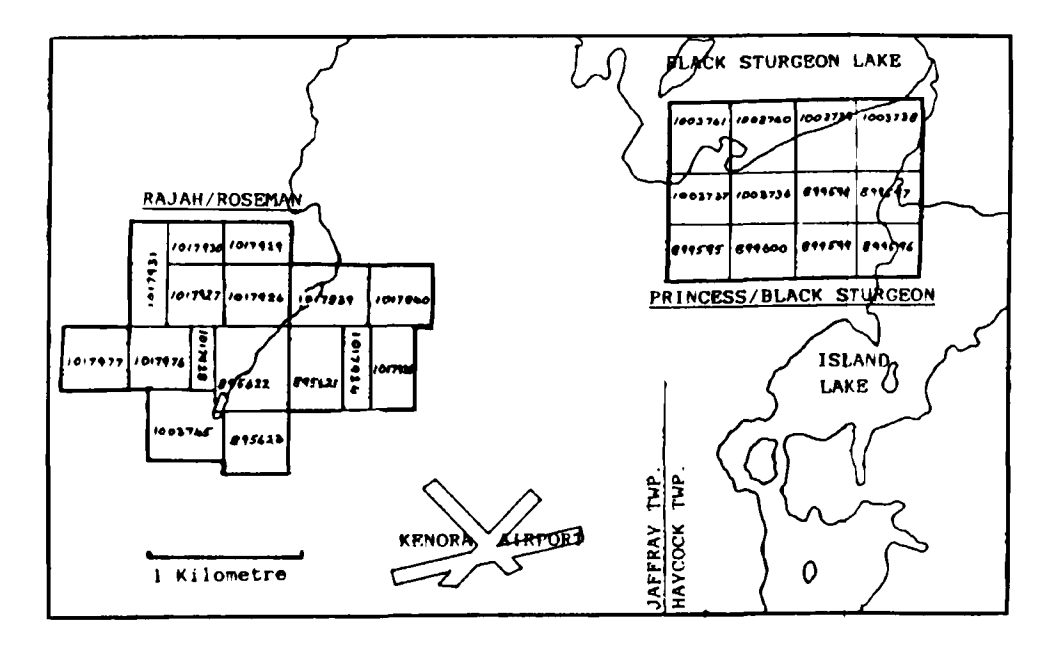
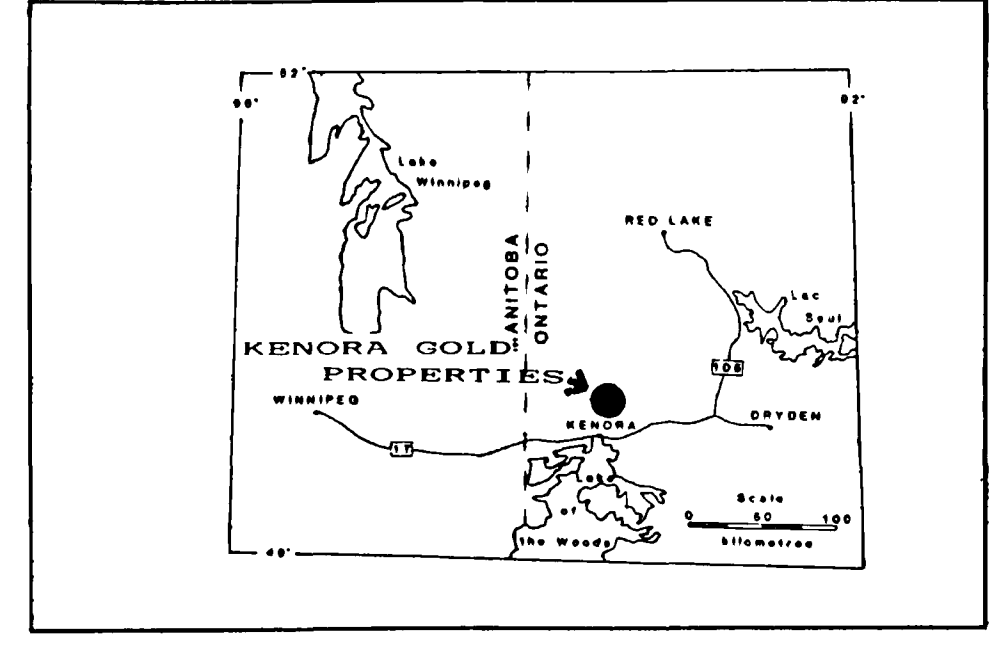
KENORA GOLD OCCURRENCES INC.
PRINCESS/BLACK STURGEON PROPERTY
 Haycock Township, District of Kenora
 Northwestern Ontario
**VLF-EM SURVEY PROFILES OF
 IN-PHASE AND QUADRATURE
 COMPONENTS**
 DATE: JAN, 1989 SCALE: 1"=50' MAP # 2



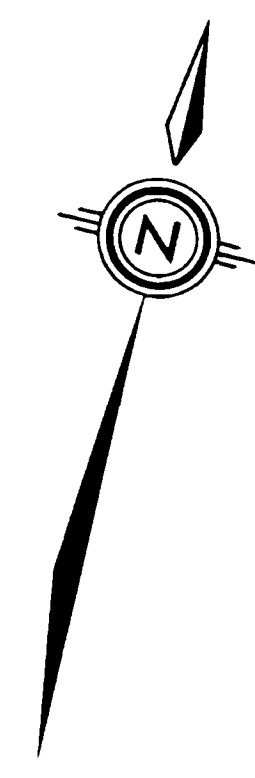
2.12345



320



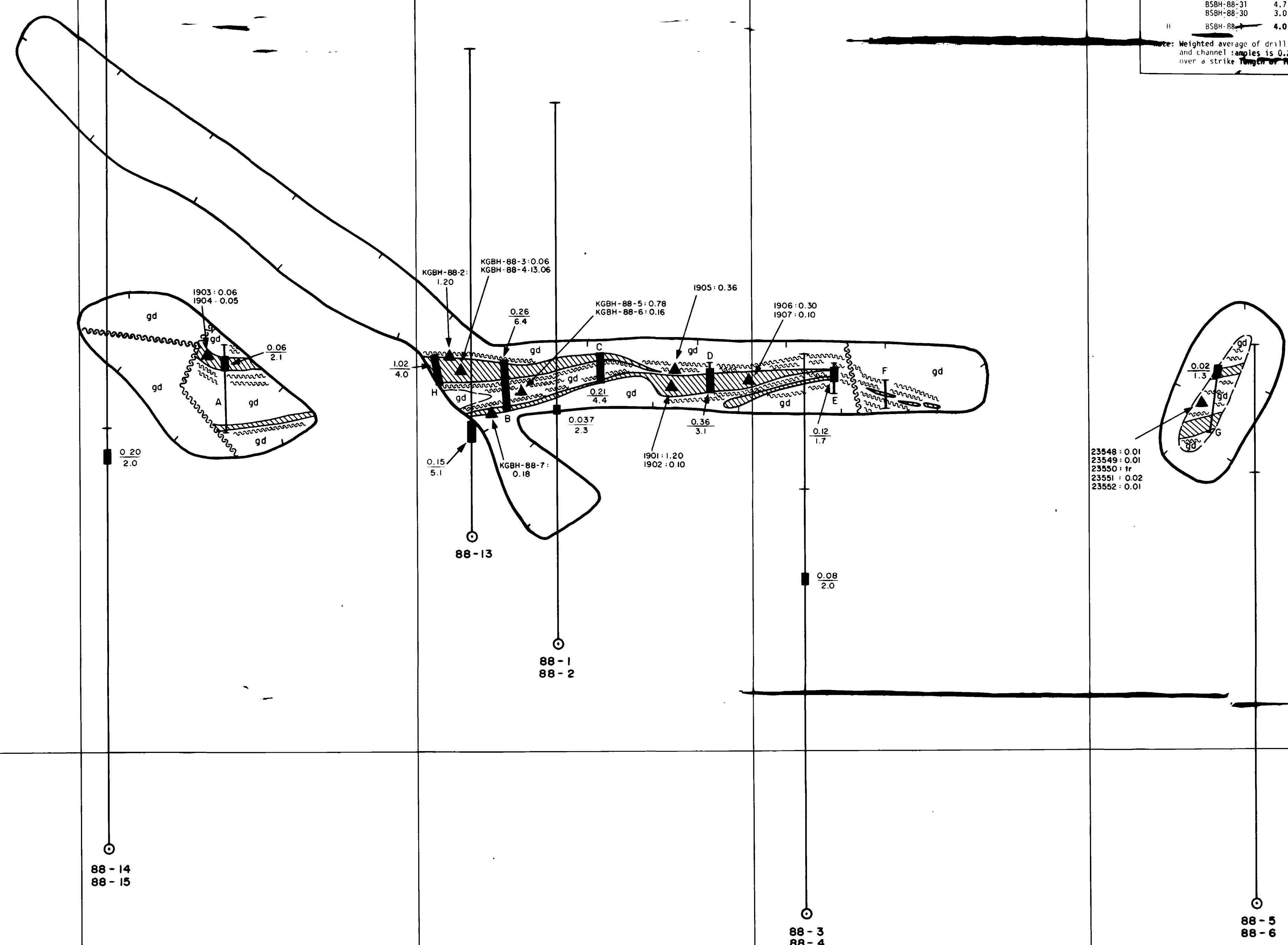
KENORA GOLD OCCURRENCES INC.
PRINCESS/BLACK STURGEON PROPERTY
 Haycock Township, District of Kenora
 Northwestern Ontario
LOCATION OF DRILL HOLES & TRENCHES
Black Sturgeon Shear
 DATE: JAN. 1989 SCALE: 1"=50' FIGURE# 4



CHANNEL SAMPLE RESULTS
(Samples listed from north to south in channel)

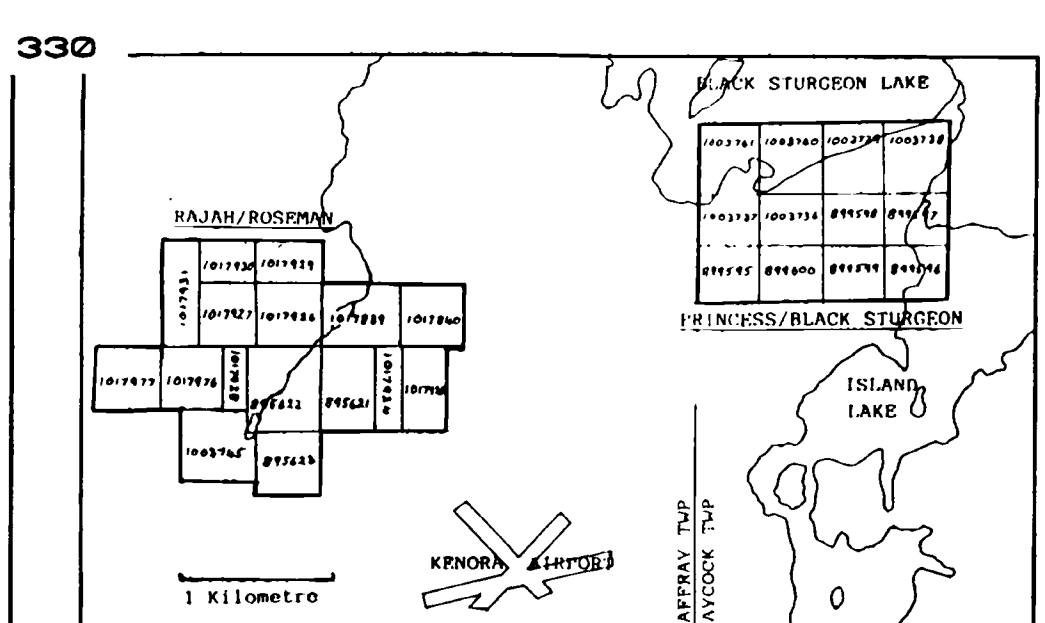
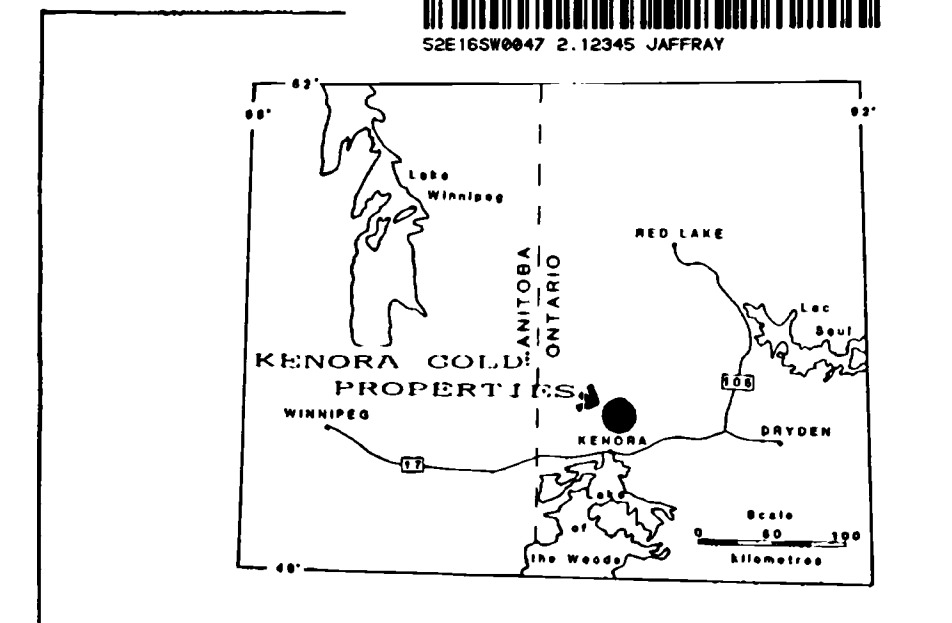
CHANNEL #	SAMPLE #	WIDTH (FT)	oz/t Au
A	BSBH-88-23	1.9	tr
	BSBH-88-22	2.1	0.06
	BSBH-88-21	4.4	tr
	BSBH-88-20	3.8	tr
B	BSBH-88-18	1.0	0.36
	BSBH-88-17	1.9	0.60
	BSBH-88-16	2.9	0.04
	BSBH-88-15	0.6	0.06
C	BSBH-88-13	1.3	0.03
	BSBH-88-12	1.0	0.24
	BSBH-88-11	1.5	0.09
	BSBH-88-14	0.6	0.28
D	BSBH-88-10	1.1	tr
	BSBH-88-9	1.1	0.06
	BSBH-88-8	2.0	0.52
E	BSBH-88-26	1.2	tr
	BSBH-88-25	1.7	0.12
	BSBH-88-24	1.5	tr
F	BSBH-88-29	1.5	tr
	BSBH-88-28	1.5	tr
	BSBH-88-27	1.1	tr
G	BSBH-88-22	1.3	0.02
	BSBH-88-31	4.7	tr
	BSBH-88-30	3.0	tr
H	BSBH-88-3	4.0	1.02

Note: Weighted average of drill hole intersections and channel samples is 0.28oz/t Au over 3.13ft over a strike length of 199ft.

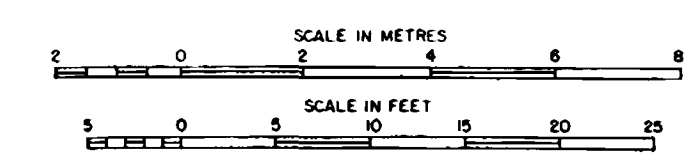


BASELINE 0+00
(IMPERIAL DETAIL GRID)

2.12345



- LEGEND
- TRENCH
 - CHIP SAMPLE
0.10 = 0.2/t Au
3.0 = SAMPLE LENGTH IN FEET
CHIP SAMPLE OF QUARTZ VEIN
 - SITE OF GRAB SAMPLES
 - DRILL HOLE
 - MINERALIZED INTERSECTION PROJECTED VERTICALLY TO SURFACE
ASSAY RESULTS IN OZ/T Au.
OVER CORE FOOTAGE
 - GEOLOGICAL CONTACT
 - GRANDODIORITE
 - SHEARING
 - FAULT
 - QUARTZ VEIN
 - T2 AMOUNT OF DIP AND DIRECTION



KENORA GOLD OCCURRENCES INC.
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**DETAIL OF TRENCHING, SAMPLING AND DRILL RESULTS
BLACK STURGEON ZONE**

EAST ZONE

DATE: JAN. 1989 SCALE: 1" = 10' MAP # 5

