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GEOLOGICAL AND GEOCHEMI AL REPORT

ON THE

HOLY CROSS FROFERTY

HC - 1, 2, 3, 4, 5 MINERAL CLAIMS

OMINECA MINING DIVISION N.T.S. 93 F/15W

Situated at Coordinates: 53⁰ 47' 124⁰ 56'

NORANDA EXPLORATION COMPANY, LIMITED (no personal liability)

> GEOLOGICAL BRANCH ASSESSMENT REPORT

SEPTEMBER, 1988

BY: WILLIAM DONALDSON

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SUMMARY:

This report describes the geological and geochemical surveys done by Noranda between May 28, 1988 and June 21, 1988 to assess the HC-1 to HC-5 mineral claims near H ly Cross Mountain, B. C. The claims were staked in June and Oct.ber, 1987 to secure an area in which an anomalous gold value in a rhyolite dome was indicated by earlier recon work.

The property is underlain by andesites, rhyolites, tuffs and minor sediments of the Ootsa Lake Group and andesite, basalt, tuff and gabbro of the Endako Group.

Geological mapping, rock and strea sediment sampling on the HC claim group has outlined several sites of epithermal veins, areas of pervasive silicification which contains low, but anomalous gold values, and areas of kaolirite alteration with associated base metal dispersion halos.

Recommendations for further property work include continued geological mapping and geochemical sampling, a magnetometer survey, possible till sampling, and stripping and/or trenching.

INTRODUCTION:

The HC-1 to HC-5 mineral claims were staked for Noranda Exploration Company, Limited in June and October, 1987, to follow up an anomalous gold value in a rhyolite dome indicated by earlier recon work. A series of these domes occur in a southeast-trending direction across the claim group.

This report describes the subsequent geological and geo-' chemical surveys undertaken between May 28, 1988 and September 1, 1988. All work was performed by employees of Noranda Exploration Company, Limited.

LOCATION AND ACCESS:

The HC claims are situated approximately 33 kilometers south of the town of Fraser Lake (Figures 1 & 2). The claims lie within the Nechako Plateau between Bentzi Lake and Holy Cross Mountain. Elevations range from 2800 feet to 4630 feet.

Access to the claims is via the Holy Cross Forest Service Road which starts 5 kilometers east of the town of Fraser Lake on Highway 16. Following this road for 38 kilometers will bring one to the claim group. Several secondary logging roads branch off the main road, and cross the western half of the claim group.

PHYSIOGRAPHY AND VEGETATION:

The local terrane is gentle to moderate sloping. There has been extensive logging in the western half; the eastern half remains forested.

Vegetation consists of mature spruce and pine. Creeks are covered by devils club and skunk cabbage. Berry bushes occur in clearcuts.

CLAIM STATISTICS

The Holy Cross property consists of five claims, HC1-5, made up of 94 claim units (Figure 2). Upon acceptance of this report, the claims will be in good standing until the indicated expiry date.

NAME	RECORD #	UNITS	RECORD DATE	EXPIRY DATE
HC1	8469	20	June 22, 1987	June 22, 1988
HC2	9015	18	Oct. 13, 1987	Oct. 13, 1988
HC-3	8470	20	June 22, 1987	June 22. 1988
HC-4	9016	18	Oct. 13, 1987	Oct. 13, 1988
HC-5	9017	18	Oct. 13, 1987	Oct. 13, 1988

TABLE 1 - CLAIM STATISTICS





PREVIOUS WORK:

The Geological Survey of Canada carried out a mapping program (1 inch to 4 miles) over the Nechako River Map-Area (Tipper, 1963) during the 1949-1952 field season.

No exploration activity is known in this area prior to Noranda staking the HC claims in 1987.

REGIONAL GEOLOGY:

The HC claims, in central British Columbia, are situated within the Nechako River area of the Interior Plateau; an area of low relief and minor bedrock exposure. The regional geology is comprised of Upper Triassic to Later Tertiary volcanic and sedimentary rocks. Andesite flows, breccias and tuffs with intercalated argillite and greywacke of the Upper Triassic Takla group form the oldest rocks. These rocks are overlain by andesite and local rhyolite, with interbedded chert pebble conglomerate, greywacke and minor argillite of the middle Jurassic Hazelton Continental, Upper Cretaceous to Oligocene, Dotsa Lake proup. Group volcanics occur next in the geological succession. This group is divisible into two units; a lower andesite and an upper rhyolite. Unconformably overlying this group is the late Tertiary Endako Group, consisting of an undeformed succession of basaltic and andesitic plateau lavas, breccias and tuffs. The latter two groups outcrop on the property.

The Nechako River area was over ridden by Pleistocene glaciers which moved in a direction varying from northeast to east.

Intrusive events occurred which emplaced granitic, granodiorite and diorite rocks during the early Jurassic and granitic rocks during the late Jurassic in the Hazelton and Takla Groups.

Metamorphism is minimal (low grade) to non-existent. Structural interpretation is difficult due to a scarcity of wellexposed rock. The most strongly deformed rocks belong to the Takla Group with dips to 70 degrees. The Hazelton and Ootsa Lake Group rocks have broad, open folds with dips up to 45 degrees. The Endako Group rocks are undeformed and essentially flat lying.

Faulting is characterized by zones of intense shearing, slickensides, gouge and breccia. Faults associated with the Ootsa Lake Group strike in all directions. The Endako Group is cut by a few near-vertical normal faults with only slight displacement.

PROPERTY GEOLOGY:

The HC-1 through HC-5 claim groups are underlain by rocks of the Ootsa Lake and the Endako Group. The Endako Group was observed only in the southern portion of HC-1 and HC-2. The reader is referred to the 1:10,000 geological map (Figure 3).

The majority of Ootsa Lake Group outcrops occur within a 900 meter wide, southeast trending band that extends from the northwest corner of HC-5 to the southeast corner of HC-1. The Ootsa Lake Group has been subdivided into four rock units.

() The first and oldest unit consists of massive marcon to grey colored andesite, porphyritic andesite and massive basalt.

The andesite is massive, maroon-to-grey colored and fine grained. The ground mass is composed of biotite, hornblende, epidote and feldspar (Tipper, 1963).

The porphyritic andesite is marcon colored, with less than 15% plagioclase phenocrysts, up to 3 mm in length.

Up to 2% disseminated specular homatite occurs in the andesites. At L12250E,11000N, several hematite veins to 10 cm width cut a porphyritic andesite. Trace pyrite and malachite have been observed in the andesites.

Randomly oriented 2-10 mm milky-white quartz veins cut the andesites. Veining is not abundant, and mineralization does not occur in the veins. Minor calcite and epidote veins fill fractures.

Alteration includes chlorite (to 4%) and kaolinite. Kaolinite alteration results in a bleached buff to tan-purple color in the andesites. In altered porphyritic andesites, plagioclase crystals have been completely altered to kaolinite. This type of alteration is typical of an epithermal model. The best example of the kaolinite alteration occurs in the northwest corner of HC-5.

Basalts are not as abundant as the andesites. The basalts are massive, grey in color, very fine-grained and vesicular. Vesicles in the basalts at L12200E,11000N are filled by epidote. The vesicles are less than 4 mm in diameter. No mineralization, veining or alteration was noted in the basalts. Trace carbonate occurs in the ground mass.

⁽²⁾ The second unit within the Ootsa Lake Group consists of flow-banded rhyolite and rhyolite breccia. The rhyolites are found in three dome-like hills at L7000E-L7800E, L11000E-L11200E and L11400E-L11600E, all on or near baseline 10000N.

The rhyolites are pink-to-marcon colored, aphanitic to very fine-grained and pervasively silicified. Flow banding and brecciation was noted on all domes. The average strike of flow

banding varies from 120 to 170 degrees, with dips of 70 to 80 degrees west. Rhyolitic breccia (primary) varies in width from 20 cm to 3 meters, with angular breccia clasts to 4 cm in length.

Veins of 2 to 5 mm quartz, drusy quartz, chalcedony and up to 2 cm veins of jasper cut the rhyolite. Quartz jointing strikes 015 and 060 degrees, and dips at 80 degrees west. The jasper veins strike 040 to 060 degrees and may contain up to 1% specular hematite. Jasper veins cutting the rhyolite breccia are also brecciated, suggesting syn-emplacement.

Mineralization within the rhyolites consists of less than 1% specular hematite and trace pyrite. Alteration consists of patchy kaolinite alteration on the two domes at L11000E to 11600E. Pervasive kaolinite alteration is present on the rhyolite dome at L7000E to L7800E.

③ The third unit within the Ootsa Lake Group consists of andesitic to dacitic tuff, felsic lapilli and crystal tuff. These volcanic rocks are the least abundant on the HC claim group.

The andesitic to dacitic tuffs are green-to-marcon colored and fine grained. Plagicclase crystals are up to 2 mm in length; several have been altered to kaolinite. There is no visible mineralization or veining in these rocks.

The felsic lapilli tuff is marcon-to-grey colored, with up to 2 cm angular lapilli. There are up to 3% white and pink feldspar crystals in the matrix. Mineralization consists of 1% disseminated pyrite and 3% specular hematite. Local calcite and/or epidote and/or quartz-carbonate veinlets cut the rocks.

The crystal tuffs are green colored, fine grained, andesitic to dacitic in composition and up to 1% plagioclase crystals within the ground mass.

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(b) The final unit within the Ootsa Lake Group consists of a sedimentary unit. No sedimentary outcrops have been observed on the property. Several conglomerate float samples consisting of stream gravels and sands occur. The conglomerate clasts are poorly sorted, with well rounded clasts ranging in size from coarse sand to 3 cm pebbles. Pebble density ranges from 5% to 60%. The clasts are composed of milky quartz, smokey quartz and chalcedony. No visible mineralization was noted in the conglomerates.

The Endako Group lies unconformably over the Ootsa Lake Group. The Endako Group rocks have been subdivided into three units.

The first unit consists of a massive basalt and massive andesite. The basalt is dark grey to black in color and the rock is fine grained. Dispersed throughout the cryptocrystalline ground mass are 3% olivine phenocrysts (<= 2 mm diameter). The andesites are green colored, in an aphanitic matrix. Locally, 1%

disseminated hematite occurs. There are up to 10%, square shaped, $\langle = 3 \text{ mm} \text{ feldspar phenocrysts and } 5\%$, $\langle = 1 \text{ mm} \text{ mafic crystals.}$ Minor epidote also is present.

The second unit of the Endako Group consists of an andesitic tuff. According to Tipper (1963), the composition of the andesitic tuff resembles that of the andesite mentioned above. Mapping has yet to locate a tuff on the claims.

The third and final unit of the Endako Group consists of a gabbro. The gabbro is black, medium grained and crystalline. No mineralization or veining has been noted in the gabbro.

LITHOGEOCHEMISTRY:

Noranda Exploration Company, Limited was interested in the economic potential for gold, silver and base metal mineralization, and thus geochemical analysis was directed toward these metals and their associated indicator elements.

One hundred and ninety-six rock grab and chip samples were collected from the Holy Cross property for geochemical analysis. A rock sample location map is presented in the back of this report (Figure 4). Assay certificates are included in Appendix IV.

The samples were shipped to and analysed at Noranda's geochem lab at 1050 Davie Street, Vancouver, B. C. The samples were analysed for gold by atomic absorption and 30 element ICP technique. The details of the analytical procedure appear in Appendix III.

To follow is a summary of statistics of the main analytical results received to date.

<u>Copper:</u> Background levels fall within the range of 2 to 20 ppm. Values as high as 20726 ppm Cu have been obtained, however, values above 2000 ppm are localized.

Zinc: Background levels fall within the range of 2 to 80 ppm. Values as high as 1150 ppm Zn have been obtained, however, the anomalous norm is around 400-600 ppm Zn.

Lead: Background levels fall within the range of 1 to 20 ppm. Values as high as 473 ppm Pb have been obtained, however, the anomalous norm is round 100-160 ppm Pb.

<u>Silver</u>: Values over 1.0 ppm are considered to be anomalous and values below this are considered to be background. The highest values obtained are 10.7, 12.8, 15.8, 18.0 and 23.6 ppm Ag. All silver values are localized.

<u>Gold:</u> Values over 100 ppb are considered to be anomalous. Anomalous values of 128, 153, 230 and 310 ppb Au were recorded, all from a rhyolite or rhyolite breccia, with quartz veining and up to 1% pyrite.

GEOCHEMICAL SURVEY :

Stream Sediments:

Stream sediments were collected wherever a road or grid line crossed a creek. Silt samples were collected from the active stream channel, placed in high wet-strength Kraft paper envelopes and shipped to Vancouver, B. C., where they were analysed by the methods described in Appendix III.

A total of 26 silt samples were collected and analysed. Gold values were below 10 ppb except for a 20, 36 and 80 ppb gold; all were below the arbitrary significantly anomalous value of 100 ppb. Silver values were at or below detectable limits, except for sample #35360, which contained 1.4 ppm Ag. Lead values fall between 6 and 28 ppm, except for sample #35360, which contained 75 ppm Pb. Zinc is relatively anomalous, with half of all values, being between 105 and 247 ppm Zn. Copper values are slightly above background (30 ppm) with 18 samples between 32 and 163 ppm Cu.

Five panned concentrates were obtained from 20 litre gravel samples collected from the easterly flowing creek across the northern portion of HC-1. The panned heavy mineral concentrates (20 to 40 grams) were shipped to Noranda's Vancouver lab and analysed as described in Appendix III. Samples were collected at 500 meter intervals, going downstream. Gold values were 110, 120, 100, 10, 380 ppb, respectively. Copper, lead, zinc and silver values were all at background levels.

CONCLUSIONS:

Geological mapping, rock and stream sediment sampling on the HC claim group has outlined several sites of epithermal veins, areas of pervasive silicification which contain low but anomalous gold values, and area of kaolinite alteration with associated base metal dispersion halos.

Rhyolites underwent epithermal activity and they display characteristics typical of shallow level, low temperature emplacement such as drusy quartz, chalcedony, silicification and brecciation.

Kaolinite alteration (characteristic of epithermal deposits) occurs in the Ootsa lake Group andesites and rhyolites. Areas with kaolinite alteration contain several base metal (Cu, Pb, Zn) and silver dispersion halos.

Approximately 5% of the Holy Cross grid contains outcrop. Most exposure occurs within a 900 meter wide band trending southeast from the northwest corner of HC-5 to the southeast corner of HC-1. Exposure is minimal outside of this band and it is the authors opinion that soil geochemistry may be an effective aid to define anomalous halos.

Gold lithogeochemical assay results have not been encouraging. The results suggest greater than 100 ppb gold values are obtained from the rhyolites. As the rhyolites are pervasively silicified and thus non-permeable, any gold is probably associated with the epithermal quartz veins.

RECOMMENDATIONS:

The following work is recommended on the HC claim group:

- 1. Continued mapping and geochemical sampling to define in more detail the geological relationships on the property.
- 2. A magnetometer survey on every 200 meter line for 1 kilometer north and south of Baseline 10000N to possibly define any structural breaks or magnetically mineralized highs.
- 3. Possible till sampling and panning to possibly outline any paleoplacer deposits.
- 4. If the conglomerate float is anomalous, then trace the float to the source area.

- 5. Stripping an/or trenching of any geochemically anomalous soil halos where surficial rock sampling has not yielded encouraging results.
- 6. Diamond drilling of any favourably anomalous areas, in conjunction with geophysical results.

REFERENCES:

- Gravel, J. and Allen, D.G. (1983): Geological and Geochemical Report on the Copley Lake Property, COP 1 to 3 claims for Abo Dil Corporation. B.C. Mining Assessment Report #11850.
- Tipper, H.W. (1963): Nechako River Map Area. Geological Survey of Canada, Memoir 324.

APPENDIX I

STATEMENT OF QUALIFICATIONS

- I, William Stratton Donaldson, do hereby certify:
- 1. that I am a geologist and reside at 1139 Edgeland Place, Ottawa, Ontario, K2C 2J9
- 2. that I graduated from Carleton University (Ottawa, Ontario) in 1985 with a Bachelor of Science (Honours) degree in Geology.
- 3. that I have practiced my profession continuously since graduation.
- 4. that this Geological and Geochemical Report on the Holy Cross Property, Omineca Mining Division, British Columbia is based on my personal knowledge of the geology of the area and on a review of published and unpublished information on the property and surrounding area.

William Omaldom

W. S. Donaldson B. Sc. (Honours) September 9, 1988

APFENDIX II

STATEMENT OF COSTS

PROPERTY: HOLY CROSS (HC 1-5 CLAI	(MS)	SEPTEMBER, 1988
REPORTS: GEOLOGICAL, GEOCHEMICAL		
i. WAGES: No. of days - 45 mandays Rate per day - \$128.47 TOTAL WAGES:		\$ 5,781.15
2. FOOD & ACCOMMODATION: No. of days - 45 mandays Rate per day - \$26.56 TOTAL FOOD & ACCOMMODATION:		\$ 1,195.20
3. TRANSPORTATION: No. of days - 45 mandays Rate per day - \$21.83 TOTAL TRANSPORTATION:		\$ 982.40
4. EQUIPMENT & SUPPLIES: No. of days - 45 mandays Rate per day - \$11.08 TOTAL EQUIPMENT & SUPPLIES:		\$ 498.40
5. ANALYSIS: 5 pans @ \$8.50 (Au, Ag, Cu, Pb, Zn, As) 26 silts @ \$11.50 (Au & 30 element ICP) 196 rocks @ \$13.75 (Au & 30 element ICP)	\$ 42.50 \$ 301.60 \$2,695.00	
TOTAL ANALYSIS:		\$ 3,039.10
6. REPORT PREPARATION: Author Drafting Typing TOTAL REPORT PREPARATION:	\$ 400.00 \$ 200.00 \$ 100.00	<u>\$ 700.00</u>
TOTAL COSTS		\$12, 196.25

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ANALYTICAL METHOD DESCRIPTIONS FOR GEOCHEMICAL ASSESSMENT REPORTS

Revised:01/86

The methods listed are presently applied to analyse geological materials by the Noranda Geochemical Laboratory at Vancouver. (March, 1984)

Preparation of Samples

Sediments and soils are dried at approximately 80° C and sieved with a 80 mesh nylon screen. The -80 mesh (0.18 mm) fraction is used for analysis.

Rock specimens are pulverized to -120 mesh (0.13 mm). <u>Heavy mineral</u> <u>fractions (panned samples) are analysed in its entirety</u>, when it is to be determined for gold without further sample preparation. See addendum.

Analysis of Samples.

Decomposition of a 0.200 g sample is done with concentrated perchloric and nitric acid (3:1), digested for 5 hours at reflux temperature. Pulps of ' rock or core are weighed out at 0.2 g or less depending on the matrix of the rock, and twice as much acid is used for decomposition than that is used for silt or soil.

The concentrations of Ag, Cd, Co, Cu, Fe, Mn, Mo, Ni, Pb, V and Zn (all the group A elements of the fee schedule) can be determined directly from the digest (dissolution) with an atomic absorption spectrometer (AA). A Varian-Techtron Model AA-5 or Model AA-475 is used to measure elemental concentrations.

Elements Requiring Specific Decomposition Method

Antimony - Sb: 0.2 g sample is attacked with 3.3 mL of 6% tartaric acid, 1.5 mL conc. hydrochloric acid and 0.5 mL of conc. nitric acid, then heated in a water bath for 3 hours at 95° C. Sb is determined directly from the acid solution with an AA-475 equipped with electrodeless discharge lamp (EDL).

Arsenic - As: 0.2 - 0.4 g sample is digested with 1.5 mL of 70 % perchloric acid and 0.5 mL of conc. nitric acid. A Varian AA-475 equipped with an As-EDL measures the arsenic concentration of the digest.

Barium - Ba: 0.1 g sample is decomposed with conc. perchloric, nitric and hydrofluoric acid. Atomic absorption using a nitrous oxide-acetylene flame determines Ba from the aqueous solution.

Bismuth - Bi: 0.2 g - 0.3 g is digested with 2.0 ml of perchloric 70% and 1.0 ml of conc. nitric acid. Bismuth is determined directly from the digest into the flame of the AA instrument c/w EDL.

Gold - Au: 10.0 g sample (Pan-concentrates see below) is digested with aqua regia (1 part nitric and 3 parts hydrochloric acid). Gold is extracted with Methyl iso-Butyl ketone (MIBK) from the aqueous solution. Gold is determined from the MIBK solution with flame AA.

Magnesium - Mg: 0.05 - 0.10 g sample is digested with 4 ml perchloric/nitric acid (3:1). An aliquot is taken to reduce the concentration to within the range of atomic absorption. The AA-475 with a nitrous oxide flame determines Mg from the aqueous solution.

Tungsten - W: 1.0 g sample sintered with a carbonate flux and thereafter leached with water. The leachate is treated with potassium thiocyanate. The yellow tungsten thiocyanate is extracted into tri-n-butyl phosphate. This permits colourimetric comparison with standards to measure tungsten concentration.

Uranium - U: An aliquot, taken from a perchloric-nitric (3:1) decomposition, usually from the multi-element digestion, is diluted with water and a phosphate buffer. This solution is exposed to laser light, and the luminescence of the uranyl ion is quantitatively measured on the UA-3 (Scintrex).

LOWEST VALUES REPORTED IN PPM

Ag - 0.2	Mn - 20	Zri - 1	Au - 0.01 (10PPB)
Cd - 0.2	Mo – i	Sb - 1	W - 2
Co - 1	Ni - 1	As – i	U - 0.1
Cu - 1	Pb — 1	Ba - 10	
Fe - 100	V - 10	Bi — 1	

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1	Project No. Material	: : 1	253 ROCK	Sheet:1 of 1 Geol.:M.S.	Date rec'd:AUG12 Date compl:AUG22	
67	Remarks	:		Values in PPM,	except where noted.	
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ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE (604) 253-3158 FAX (604) 253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

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NORANDA EXPLORATION PROJECT 8807-090 253 FILE # 88-2975

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Holy Cross (FS) DRIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE (604) 253-3158 FAX (604) 253-1716 GEOCHEMICAL ANALYSIS CERTIFICATE IC? - .500 CHI SUMI IS DICISIED FITH 112 3-1-2 ICI-HO3-HO IT 55 DIG. C FOR OH HOR LAD IS DILUTED TO 10 IL FITH LATH. THIS LIKE IS MATTLE FOR HI IS C. 2 LL CR IS IN IS 5 DIG. C FOR OH HOR LAD IS DILUTED TO 10 IL FITH LATH. - SUMIN THE: ROCK AFT AND LATED LICE AND LO IN OF B I LED LL. AS DIFFICIENT LIKE IN ICT IS 3 PM.

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09475	1	25	- 13	- 1	.3	1	2	64	1.41	2	5	D	6	1	1	2	2	2	.92	0Z6	30	1	.01	1230	.01	- 4	.21	.01	.21	1	1
14476	ī	11		13	.1	1	1	106	1.72	2	7	D	3	1	1	3	3	4	.01	.007	20	1	.02	105	.02	1	.21	.01	.11	2	1
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ACHE ANALYTICAL LABORATORIES LTD.

	**		RANDA VANC	OUVER LABORATORY	***	
PROPERTY/L	DCATION	HOL	Y CROSS		CODE	:8807-060
Project No. Material Remarks	. :	6 24	253 RX & SOILS	Sheet:1 of i Geol.:D.M. Values in PPM,	Date Date except	rec'd:JUL14 compl:JUL26 where noted.
 T. T. No.	SAMPLE No.			ррв Ац		

25	36256	1 G
26	36257	10
27	36258	10
28	16364	10
29	16365	10
30	16366	520



27/07 (y.M.)/DP

Rocks -	HOLY CROSS (D.H.)	file . 8807-060 r
ACHE ANALYTICAL LABORATORIES LTD.	852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHO CHEMICAL ANALYSIS CERTIFICA	NE(604)253-3158
IC?500 GRI SUN THIS LUCE IS PARTE - SUNCE THE PARTE DATE RECEIVED: JUL 22 1988 DATE REPORT	L IS DIGISTED TITE BEL 3-1-2 ICL-HO3-FOO AT 35 DIG. C FOR OIL HOUR AND IS DILUTED TO 10 HE FOR HE FE SE CE ? LE CE HE DA TI & Y AND LOUTED FOR DA I AND AL. AN DEFICION LINET BY A ANT ANALYSIS BY ACTO LEACH/AA FRON 10 GE SAMPLE.	AUG - 2 1988
NORAL	DA EXPLORATION PROJECT 8807-060 253 File # 88-2904	
SAMPLY XO CU PD ZU AG NA CO PPM PPM PPM PPM PPM PPM PPM PPM	Xn Fe As U Au Th St Cd Sh Bi V Ca P La Cr PPK & PPK PPK PPK PPK PPK PPK PPK & X PPK PPK	Mg Ba TI B Al Ta K T Au* (3 PPM 3 PPK 3 3 TPK PP3

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

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GILN SAMPLE IS DIGISTED FITE BUL 3-1-2 FCL-RE03-FZO AT 95 DEG. C FOR ONE MODE AND IS DELOTED TO 10 HL VITE WATER. THIS LEACH IS PARTIAL FOR HE FE CA ? LA CE NG BE TE B Y AND LIMITED FOR TA E AND AL. AU DEVECTION LIMIT DE ICP IS 3 PPM. - SAMPLE TIPL: ROCK AUP ARALTSES DE ACID LEACE/AA FROM 10 GE SAMPLE.

DATE RECEIVED: JUL 10 1914

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NORANDA EXPLORATION PROJECT-8806-026 253 File # 88-1887 Page 1

5).xP12#	Ro Sin	Ca 191	95 791	IS PPK	λg 291	¥I PPX	Co ??#	Xa PPX	Je ł	72 77X	PPK 1	21 77X	7b PPX	ST PPK	Cđ PPX	5b 79%	Bİ PPK	4 222	Ca 3	7	La PPK	Cr ?PX	Ng ł	81 228	71 }	1 72X	11 1	Ja ł	I ł	R K	λα" FP B
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852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

ACME ANALYTICAL LABORATORIES LTD.

GEOCHEMICAL ANALYSIS CERTIFICATE

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ICP - .500 GRAN SAMPLE IS DIGISTED THT 3EL 3-1-2 ICL-MOI-N20 IT 95 DIG. C FOR OUT HOUR AND IS DILWTED TO 10 EL TITE TATUR. THIS LEACH IS PLATIAL FOR MI PE SE CL P LL CE HE HI TH I HOLD LIMITED FOR IA & AND AL. AN DEVICTION LIMIT BY ICP IS 3 PPAL - SAMPLE TIPE: NOCK AND MILLISIS BY ACID LIMITIAL FROM 10 GE SAMPLE.

DATE RECEIVED: JIL 20 HI DATE REPORT MAILED: July 25/88 ASSAYER. D. TOYE OR C. LEONG, CERTIFIED B.C. ASSAYERS NORANDA EXPLORATION PROJECT 8807-077 253 File # 88-2833

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					Values	in PPM	l, exce	except where noted.					
T.T. No.		SAMPLE No:	 Сч	Zn	Pb	Ag	As		 РРВ Ац				
 144	SILT	 7918	 I 36	60		 0.4	 4		 10	, (+a) () ala			
145		7919	170	680	8	1.2	8		10				
146		7920	72	120	4	0.8	8		10				
147		7922	66	160	4	0.6	B		10				
148		7924	: 28	110	2	0.4	8		10				
149	SILT	7926	20	110	i	0.2	8		10				
			•	2	7								
т. т. No.		SAMPLE No.	Sample Wt.(g)	PPB Au		 Cu	Ź'n	рь	. Ag	As			
) 46	PAN	7917	17.5	10	1	16	82	1	0.2	2			
47		7921	32.5	370	1	22	190	4	0.2	<u> </u>			
48	501	7923	33./ SS 1	1460		24	100	2	0.2	2			
49	PHN	1950	22.1	110	1	16	120	1	0.2	<u> </u>			

N.B. Pan-con: entire sample used for Au determination. *Cu, Zn, Pb, Ag, As values obtained from Aqua Regia sol'n.

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No.		No.	wt. (g)	PPB Au	Cu	Zrı	РЬ	Ag	Мо	Fe	Mm
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N.B. Pan-con: entire sample used for An determination. *Cu, Zn, Pb, Ag values obtained from Aqua Regia sol'n.

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