

MAP NO.: ASSESSMENT REPORT X

DOCUMENT NO: 093011

115 P /14, 15 PROSPECTUS
CONFIDENTIAL X
OPEN FILE

MINING DISTRICT: Dawson
TYPE OF WORK: Trenching & Sampling

REPORT FILED UNDER: Noranda Exploration Co.

DATE PERFORMED: June 11 - August 24, 1991.

DATE FILED: February 19, 1992

LOCATION: LAT.: 63°52'N
LONG.: 137°05'W

ARFA: Clear Lake Area
VALUE \$: N/A

CLAIM NAME & NO.: Rum 1 - 50, YA88956 - YA89005, Rum 51 - 90 YA89345 - YA89384
Rye 1 - 24, YB05624 - YB05647, Rye 29 - 41 YB05652 - YB05664
Rye 43 - YB05665, Rye 45 - YB05666, Rye 47 - YB05667,
Rye 49 - YB05668, Rye 51 - YB05669, Rye 54 - YB05671,
Rye 56 - YB05673, Rye 61 - 62, YB05678 - TB05679
Rye 75 - 84, YB05692 - YB05701.

WORK DONE BY: Jesse L. Duke

WORK DONE FOR: Noranda Exploration Co.

DATE TO GOOD STANDING:

REMARKS: # 115 - P - Clear Lake Area

As part of a larger summer project at Clear Lake Noranda filed for physical work which included 3 km of access road building, and 560 m of trenchings. Three trenches were dug over the Saddle Zone and two were dug over the Elger zone. A total of 100 rock samples were obtained the best of which returned 6.05 grams per tonne over five metres and 2.11 grams per tonne over 25 metres.

TRENCHING AND SAMPLING REPORT

on the

RUM 1-90, RYE 1-41, 43, 45, 47, 49, 51, 54, 56,

and RYE 61-62, 75-84 CLAIMS

Dawson Mining District

N.T.S.: 115 P/14, 115 P/15

Latitude: 063 52'N

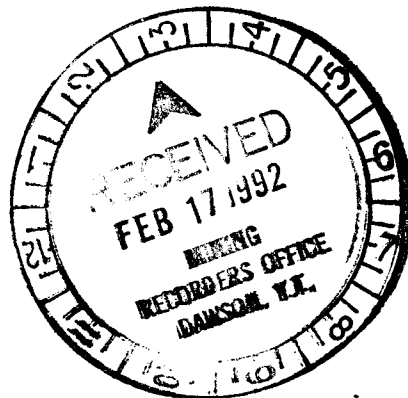
Longitude: 137 05'W

Noranda Exploration Co. Ltd.

(no personal liability)

Jesse L. Duke

January, 1992



093011

This report approved
for content only. Actual
amount approved for
assessment credit to be
decided by Mining
Recorder.

Robert DeKluk.

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SUMMARY

The Clear Creek gold property is located in central Yukon 472 km by road north of Whitehorse. It consists of 146 contiguous quartz claims. The claims cover gold mineralization that occurs as disseminations in quartz-monzonite, along high-angle faults associated with porphyry dykes, disseminated in hornfelsed metasediments, and in quartz veins cutting both hornfelsed sediments and diorite.

The 1991 field program included geochemical surveys, magnetometer and I.P. surveys, prospecting, and mapping. Physical work consisted of the building of 3 km of road access and 560 metres of trenching. A 600 m by 2.6 km strong gold in soil anomaly was obtained on the northern end of the property (between the Saddle and Elger Zones). Sampling in this area indicated the potential for bulk-tonnage low-grade disseminated gold mineralization hosted by quartz monzonite in the Saddle Zone. Significant tonnage potential in fracture-controlled auriferous quartz-arsenopyrite veins hosted by diorite occurs in the Elger Zone.

CHAPTER ONE: INTRODUCTION

1-1: Introductory Statement

This report summarizes the 1991 field program and describes the physical work conducted by Noranda Exploration Company Limited on the RYE and RUM claims, known collectively as the Clear Creek Property, located in central Yukon Territory.

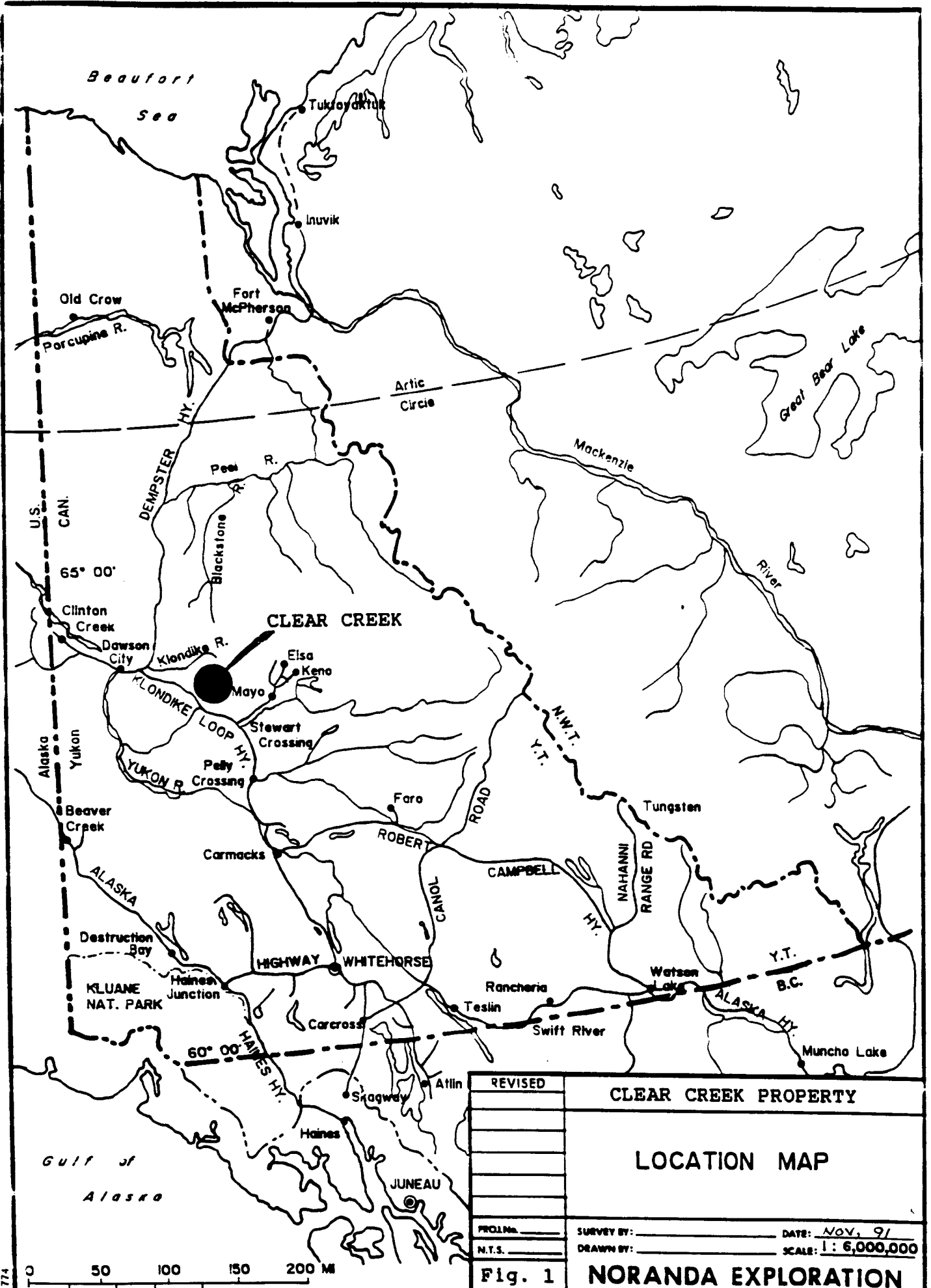
During the period between June 11 and August 24, 1992 extensive geochemical, geophysical, and prospecting surveys were conducted. In addition, three kilometers of access road construction and 560 metres of trenching was completed to test gold targets identified from the previous surveys.

1-2: Access & Location

The property is located in the Dawson Mining District in central Yukon. Access is provided by the paved Klondike Highway, at a point 435 km north of Whitehorse, and then 37 km east on a well maintained gravel road to the west boundary of the property. Four-wheel-drive roads provide access on the property.

1-3: History of Claims

The property consists of 146 contiguous unsurveyed quartz claims, staked in accordance with the Yukon Quartz Mining Act. The property covers an area of approximately 1,051.4 hectares.



REVISED	CLEAR CREEK PROPERTY	
	LOCATION MAP	
PROJ. No. _____	SURVEY BY: _____	DATE: <u>Nov, 91</u>
N.T.S. _____	DRAWN BY: _____	SCALE: <u>1: 6,000,000</u>
Fig. 1 NORANDA EXPLORATION		

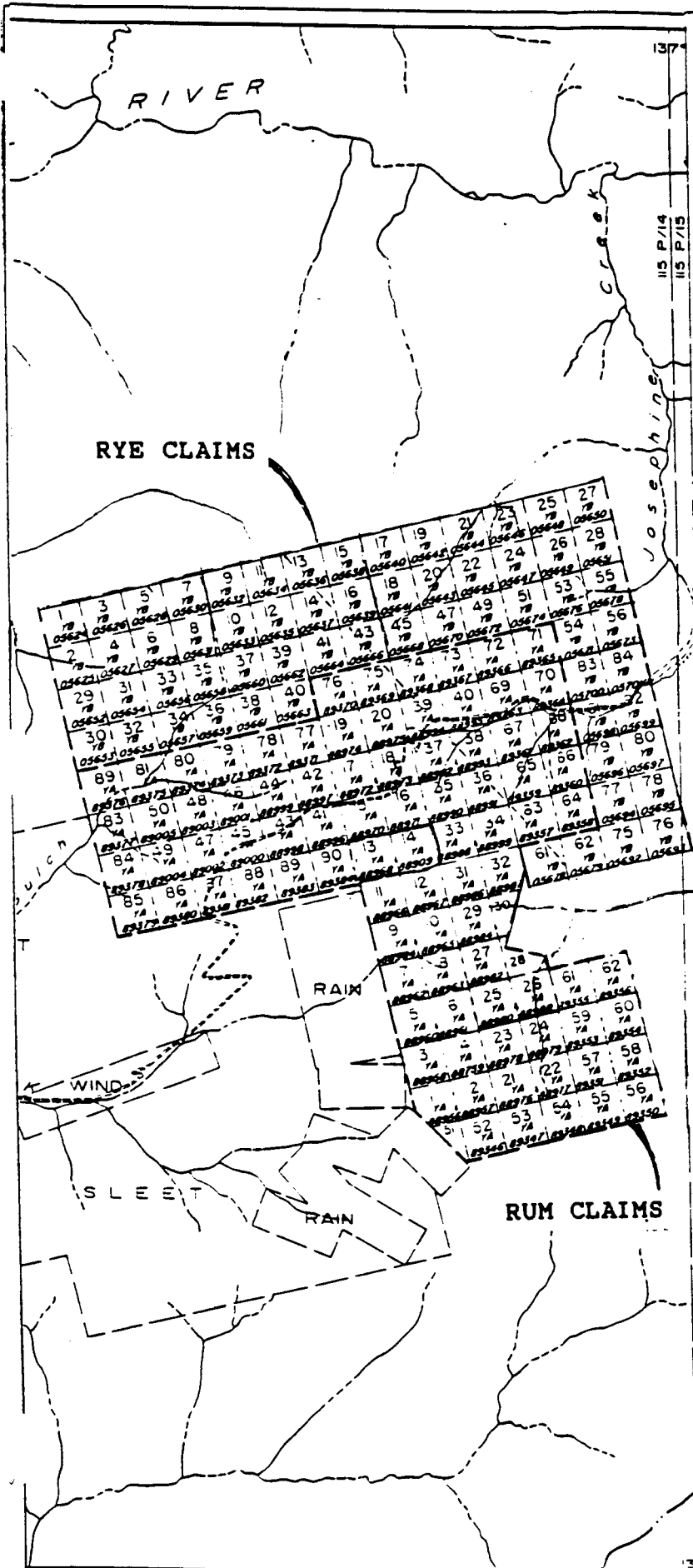
The Rum 1-90 claims were staked in 1987 by Ron Robertson. The RYE 1-24, 29-41, 43, 45, 47, 49, 51, 54, 56, 61-62, 75-84 were added in 1988 to cover additional areas of interest. Some claims staked in the area as part of the property were allowed to lapse by previous operators where the potential had been considered minimal.

Upon acceptance of this report the status of the claims will be as follows:

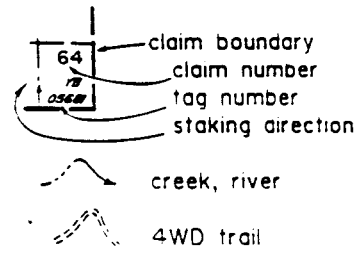
CLAIM NAME	GRANT No.	No. CLAIMS	EXPIRY DATE
RUM 1-50	YA88956-YA89005	24	April 1, 1994
RUM 51-90	YA89345-YA89384	40	June 17, 1994
RYE 1-24	YB05624-YB05647	24	June 8, 1994
RYE 29-41	YB05652-YB05664	14	June 8, 1994
RYE 43	YB05665	1	June 8, 1994
RYE 45	YB05666	1	June 8, 1994
RYE 47	YB05667	1	June 8, 1994
RYE 49	YB05668	1	June 8, 1994
RYE 51	YB05669	1	June 8, 1994
RYE 54	YB05671	1	June 8, 1994
RYE 56	YB05673	1	June 8, 1994
RYE 61-62	YB05678-YB05679	2	June 8, 1994
RYE 75-84	YB05692-YB05701	10	June 8, 1994

The region is an active placer camp with operating mines on many of the drainages in the area. The area was first explored for tin and tungsten mineralization in the late 1970's and early 1980's. The potential for gold mineralization was recognized by Canada Tungsten Mining Corporation while exploring for tungsten. However, they discontinued their interest in the area in 1982.

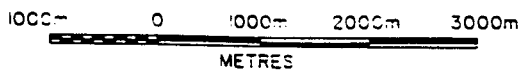
In 1987 the property was staked by Ron Robertson and optioned to Goldrite Mining Corporation. Between 1987 and



LEGEND



NOTE: adapted from D.I.A.N.D. map sheets 15 P-14 & 15



NORANDA EXPLORATION COMPANY LIMITED
CLEAR CREEK PROPERTY
 DAWSON MINING DISTRICT

CLAIM MAP

1989 geological mapping, various geochemical surveys, prospecting and 1236 metres of drilling were completed. Goldrite dropped their option on the property in the fall of 1990. Noranda conducted two property examinations in 1990 and optioned the property in February of 1991. Extensive geochemistry, sampling, geophysics, and some trenching were completed on the property during the 1991 season. This report covers some of this work.

1-4: Physiography & Vegetation

The property lies in the Ogilvie Mountains at elevations that range from 900 metres to 1800 metres. Glaciation is limited to small alpine glaciers in the highest mountains. Most of the property is unglaciated and consists of talus-covered slopes, cliffs, and felsenmeer covered ridges.

The property is primarily above treeline and vegetation consists of dwarf willow, mosses and lichens, birch, and scattered fir.

1-5: Work Program:

The following work was completed on the property between June 11 and August 24, 1991. A total of 442 rock and trench samples and 1661 soil samples were collected and analyzed for 31 elements by ICP plus gold by AA. A 137.6 line-kilometer ground magnetometer survey was completed.

Eight kilometers of I.P. was completed over the Saddle and Elger Zones. Physical work consisted of the completion of three kilometers of access road to the Saddle and Elger Zones and a total of 560 metres of trenching.

Personnel involved in the program were as follows:

NAME	TITLE	RESIDENCE
Greg Gillstrom	Geologist	Vancouver, B.C.
Vivian Park	Geologist	Vancouver, B.C.
Eric Lilles	Assistant	Whitehorse, Yukon
Wilson Muir	Assistant	Whitehorse, Yukon
Paul Barancewicz	Assistant	Edmonton, Alberta
Tony Bazylnski	Cat operator	Whitehorse, Yukon

On July 29th, a D-8 Caterpillar bulldozer began building four kilometers of access road from the existing road network at the Contact Zone to the Saddle Zone and Elger Zone. In addition, a total of 360 metres of trenching was completed on the Saddle Zone in three trenches and 200 metres of trenching in two trenches was completed on the Elger Zone.

A total of 100 trench samples were collected and analyzed for 31 elements, including gold. Results are provided in the appendix.

The progress of the cat work was delayed by mechanical problems. Cat work and sampling was completed by August 24 and the Cat and field crew was demobilized from the property.

CHAPTER TWO: GEOLOGY

2-1: Regional Geology

The region is located within Selwyn Basin and is mostly underlain by Paleozoic metasedimentary rocks thought to be part of the Road River Formation. The dominant lithologies in the area include quartzite, phyllite, quartz-feldspar-mica schists, conglomerate sandstones, slate, and limestone. The property is located on the northwest end of the McQuesten anticline. The McQuesten anticline hosts a 90 km long region of scattered intrusive rock of dominantly quartz-monzonite to diorite composition. Acid stocks and mafic dykes also occur.

2-2: Property Geology

The property is underlain by Proterozoic to early Paleozoic metasedimentary rocks of the "Grit Unit". These have been intruded by stocks that vary in composition from quartz monzonite to diorite. Extensive hornfelsing of the sediments occur peripheral to the stocks. The area is also cut by scattered narrow quartz-feldspar porphyry, aplite and lamprophyre dykes.

CHAPTER THREE: MINERALIZATION

Gold mineralization occurs spatially associated with arsenopyrite as fine disseminations in quartz monzonite, in quartz veins cutting diorite and hornfelsed sediments, finely disseminated in hornfelsed sediments around quartz monzonite, finely disseminated in aplite dykes, and in quartz veining associated with quartz-feldspar porphyry dykes. Two very large and a number of smaller gold-arsenic soil and talus-fine anomalies have been identified on the property. The Saddle and Elger Zones are found within a 600 m by 2.6 km area with gold in soils >50 ppb. This anomaly follows a zone of east-west trending shearing. The Contact Zone defines an elliptical area roughly one by 1.6 km in size with soils containing gold >50 ppb.

CHAPTER FOUR: TRENCHING

4-1: Saddle Zone

Three trenches were cut along the ridge in the Saddle Zone. Anomalous gold values were common throughout the trenches. The trenching was done to identify the extent of mineralized soil and felsenmeer sampled previously along the ridge. The trenching cut schists and quartzite which were intruded by one narrow felsic dyke and one narrow lamphrophyre dyke. Significant mineralization was intersected in Trench S-2 where it cuts a 23 metre wide exposure of quartz monzonite. Sampling at five metre intervals across the monzonite returned 2.11 grams per tonnes over 25 metres. This includes 6.05 grams per tonnes over 5 metres. The results are plotted on Figure 3.

4-2: Elger Zone

High-grade gold-arsenopyrite veins cutting sheared diorite are exposed in a cliff face and talus in this area. Two trenches were cut in an attempt to expose and better define the extent of the mineralization on the ridge above these exposures.

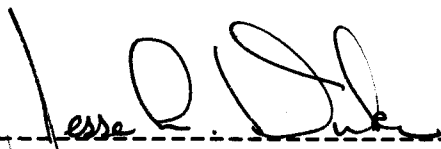
All sampling in Trench E-1 returned anomalous results. The best intersection was 1.09 g/t gold over 35 metres over a felsic intrusive. This included 4.2 g/t gold over 5.0 metres. The best results in Trench E-2 was 4.72 g/t gold over 1.0 metres in sheared diorite. The trenches were not successful in exposing the high-grade mineralization found

on the steep slope to the northwest (Wilson, Greg and EE
veins).

CHAPTER FIVE: CONCLUSIONS & RECOMMENDATIONS

Results from the 1991 sampling were encouraging. In the Saddle Zone, the best gold mineralization is disseminated in quartz monzonite. In the Elger Zone, gold occurs in a variety of rock units with the best samples coming from quartz-arsenopyrite veins in sheared diorite.

The size of the geochemical anomalies coupled with encouraging results from prospecting and limited trenching suggest excellent potential to develop significant tonnages of low-grade gold mineralization. Rough terrain and steep talus slopes precludes further effective surface evaluation. Diamond drilling is recommended in the Saddle Zone to test the strike extent of quartz-monzonite mineralization towards the west. Diamond drilling should also be done in the Elger Zone to test for fracture-controlled gold mineralization in diorite. In addition, the Contact Zone should be evaluated for bulk-tonnage potential.



Respectfully submitted by;
Jesse L. Duke
Project Geologist

STATEMENT OF COSTS

July 29 to August 24, 1991:

Labour (81 man days at \$150/day)	\$12,150.
Truck Rental gas and mileage	1,200.
Rock geochemistry (100 X \$25)	2,500.
D-8 Bulldozer (\$160./hr X 88hrs)	14,080.
Camp Support (\$50./day/3 men X 27)	4,050.
Report preparation	500.

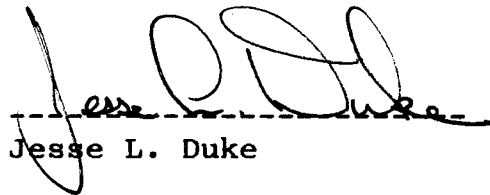
TOTAL:	\$34,480.

STATEMENT OF QUALIFICATIONS

I, Jesse L. Duke hereby certify that:

1. I recieved a B.Sc degree in geology from the University of Alaska, Fairbanks in 1986 and have been involved in mineral exploration continuously since that time.
2. I reside in Whitehorse, Yukon Territory and have been employed by Noranda Exploration Company Limited (No Personal Liability) since April, 1988.
3. I am a member in good standing of the Geological Association of Canada.
4. I supervised the work carried out on the property described in this report.

January 20, 1992



Jesse L. Duke

APPENDIX I
GEOCHEMICAL RESULTS

GEOCHEMICAL ANALYSIS CERTIFICATE

Noranda Exploration Co. Ltd. PROJECT 9107-044 352 File # 91-2394 Page 1
1050 Davie St., Vancouver BC V6E 1M4



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*	Hg
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppb	ppb
145583	2	46	9	14	.3	5	2	103	2.15	27	5	ND	8	31	.2	2	2	13	.22	.084	24	17	.45	93	.07	5	1.44	.04	.67	1	8	5
145584	2	34	167	4	1.3	8	1	49	1.65	550	5	ND	5	20	.5	9	2	4	.05	.010	11	14	.04	35	.01	17	.25	.01	.32	1	49	45
145585	2	41	613	13	18.5	16	6	49	1.36	1281	5	ND	6	12	.5	16	8	2	.01	.014	7	11	.02	21	.01	10	.15	.01	.18	1	130	5
145586	2	7	26	3	.1	4	2	25	.66	83	5	ND	4	18	.2	2	3	1	.01	.006	8	7	.01	35	.01	18	.35	.01	.16	2	22	5
145587	1	54	10	55	.2	25	10	289	1.75	20	5	ND	7	20	1.3	2	11	2	.12	.015	6	14	.40	17	.03	2	1.04	.09	.05	121	16	5
145588	1	108	13	15	.2	19	23	85	1.59	434	5	ND	7	11	.6	2	2	8	.03	.005	11	18	.31	232	.04	2	1.02	.04	.25	3	21	5
145589	2	36	12	81	.8	44	16	185	2.48	282	5	ND	9	1	.2	3	2	1	.01	.008	14	9	.02	17	.01	9	.37	.01	.13	1	24	5
145590	1	21	8	30	.3	14	3	185	1.95	90	5	ND	9	23	.2	2	2	14	.08	.009	12	19	.47	86	.06	2	1.46	.09	.33	3	3	5
145591	1	14	5	14	.2	6	1	90	.99	8	11	ND	5	3	.2	2	2	5	.01	.003	5	8	.11	7	.01	2	.38	.01	.05	1	3	5
145592	4	8	13	1	2.0	4	29	8	24.50	99999	8	ND	7	30	.2	242	390	23	.13	.018	2	51	.03	37	.04	2	.32	.01	.07	3891	6730	5
145593	2	12	8	1	1.5	11	26	19	16.92	99999	5	13	1	5	.2	109	944	1	.05	.004	2	49	.01	2	.01	3	.01	.01	.02	1	17100	60
145594	1	48	10	112	.4	12	18	671	4.97	223	5	ND	20	172	.3	2	5	42	2.43	.151	30	40	1.49	181	.02	9	1.40	.06	.30	2	31	5
145595	2	4	32	2	4.7	1	1	28	.48	143	5	ND	7	8	.2	4	2	2	.05	.009	22	4	.04	26	.01	30	.24	.01	.14	1	14	5
145596	1	57	91	9	6.8	8	25	90	7.65	63729	5	ND	3	9	.2	38	105	14	.06	.020	4	28	.33	30	.01	8	.49	.01	.05	125	1360	5
145597	1	33	4	57	.3	18	13	849	3.48	841	5	ND	12	232	.2	2	7	27	4.09	.107	17	44	1.45	93	.01	5	1.09	.03	.19	1	52	5
145598	1	83	6	48	.4	8	6	534	4.92	197	5	ND	11	185	.7	2	10	42	2.55	.133	11	44	1.44	191	.02	8	1.62	.11	.28	1	31	5
145599	1	15	7	93	.3	8	6	998	4.09	121	5	ND	8	452	.8	3	2	10	7.40	.051	10	15	1.61	53	.01	2	.34	.06	.11	1	7	5
145600	1	17	6	55	.2	29	11	200	2.79	509	5	ND	13	10	.2	2	5	18	.07	.018	22	26	.80	53	.06	2	1.80	.07	.38	4	19	5
145601	3	13	104	2	1.6	11	2	37	1.93	5765	11	2	4	4	.2	33	71	2	.03	.006	5	12	.02	30	.01	5	.16	.01	.12	1	590	5
145602	1	46	7	10	.2	18	9	97	1.58	1163	5	ND	9	26	.2	2	3	10	.18	.005	8	17	.36	119	.03	2	1.06	.07	.21	3	20	5
145603	1	174	2	27	.4	55	33	365	5.49	457	5	ND	2	224	.2	4	4	127	1.94	.137	5	66	1.57	111	.32	2	4.09	.49	1.22	5	15	5
145604	1	123	2	20	.3	58	36	309	3.97	1333	5	ND	1	261	.4	2	6	88	2.69	.142	5	52	1.12	67	.25	2	4.33	.60	.59	4	15	5
145605	2	127	5	13	.3	20	9	97	2.62	4867	5	ND	7	42	.2	3	29	10	.36	.012	6	21	.29	41	.02	2	1.30	.12	.15	26	160	5
145606	1	6	12	48	.2	15	3	213	1.06	34	5	ND	7	8	.3	2	2	8	.07	.005	9	10	.27	52	.05	2	.71	.04	.23	1	12	5
145607	1	10	3	13	.1	7	1	69	.46	27	5	ND	3	2	.2	4	3	2	.02	.011	4	5	.02	5	.01	2	.10	.01	.04	1	5	5
145608	1	9	17	86	.3	24	12	740	1.92	88	5	ND	14	5	.2	2	4	13	.05	.019	25	11	.04	21	.02	2	.67	.01	.09	3	7	5
145609	1	305	6	45	.2	6	3	51	7.50	350	5	ND	23	4	.2	7	8	27	.03	.086	13	23	.01	6	.01	2	.72	.01	.01	7	150	90
145610	1	12	6	24	.4	17	5	94	1.83	235	11	ND	8	9	.2	6	6	5	.02	.014	20	7	.02	16	.01	9	.37	.01	.19	4	200	5
145611	2	88	11	2	.6	12	3	73	1.28	1052	5	ND	1	2	.3	12	10	1	.01	.002	2	7	.01	3	.01	3	.03	.01	.02	1	530	5
145612	5	9	13	16	6.7	2	39	78	25.78	99999	5	5	2	1	.2	96	169	6	.01	.012	2	31	.02	30	.01	3	.12	.01	.02	1	24800	10
145613	1	12	21	9	.2	6	2	98	.99	1816	5	ND	5	23	.2	11	9	2	.05	.007	14	6	.02	45	.01	7	.27	.01	.13	4	120	5
145614	2	11	3	22	.1	19	5	272	1.56	649	5	ND	8	13	.2	2	3	3	.13	.032	18	5	.03	29	.01	31	.38	.01	.16	2	31	5
145615	73	45	11	43	1.1	8	7	188	14.10	11726	6	ND	11	121	.2	51	5	4	.07	.068	26	6	.03	107	.01	20	.61	.01	.33	3	1180	55
145616	13	19	9	9	.1	12	1	61	1.20	842	5	ND	6	13	.2	2	4	1	.02	.006	13	12	.01	32	.01	5	.26	.01	.11	3	37	5
145617	4	59	3	1	.1	7	2	32	.95	3722	5	ND	4	20	.2	2	2	1	.02	.003	10	8	.01	65	.01	6	.23	.01	.12	4	92	5
145618	19	103	12	14	.1	8	4	44	1.33	5784	7	ND	7	14	.2	4	8	1	.01	.011	11	4	.01	25	.01	4	.25	.01	.11	1	280	5
STANDARD C/AU-R	19	60	44	139	7.0	73	32	1137	3.99	43	18	7	40	53	18.9	15	19	59	.53	.098	39	60	.96	182	.10	35	1.95	.07	.16	11	490	1500

ELGER ZONE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. HG ANALYSIS BY FLAMELESS AA.

DATE RECEIVED: JUL 9 1991 DATE REPORT MAILED: July 12/91. SIGNED BY: D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppb
R145698	3	27	10	6	.2	9	4	83	.84	1060	5	ND	1	18	.2	3	63	3	.03	.002	2	33	.09	18	.01	6	.14	.02	.04	279	8500
R145699	3	22	10	12	.5	9	8	130	1.48	1386	5	4	1	43	.2	5	248	26	.14	.012	4	57	.63	129	.05	6	.67	.02	.32	217	5500
R145700	3	15	19	4	3.9	8	16	78	1.25	8173	5	26	1	6	.2	35	965	6	.06	.005	2	95	.14	20	.01	4	.11	.01	.04	1181	22200
R146025	2	910	158	6	32.6	15	25	79	7.51	99999	5	426	1	2	.2	368	8949	1	.01	.001	2	1	.02	7	.01	5	.04	.01	.01	36	232600
R146026	1	11	2	32	.2	83	10	80	.86	312	5	ND	11	32	.2	5	31	66	.53	.169	13	374	.05	22	.01	3	.67	.01	.02	5	450
R146027	1	55	2	15	.5	22	9	249	1.76	1066	5	4	7	130	.2	2	74	19	1.32	.013	21	47	.47	60	.08	3	1.75	.04	.21	291	3000
R146028	2	42	6	19	2.3	21	42	159	2.76	14735	5	25	9	58	.2	14	311	19	.50	.014	19	88	.57	79	.07	5	1.15	.04	.34	1034	18600
R146029	3	18	8	16	.2	9	3	196	1.55	938	5	ND	15	39	.2	2	12	13	.29	.039	19	17	.22	69	.06	4	.69	.07	.18	23	310
R146030	1	7	2	57	.2	7	4	272	2.08	839	5	ND	21	59	.2	2	15	14	.74	.037	44	10	.37	214	.07	4	1.19	.07	.30	6	740
R146031	4	70	7	29	.6	17	11	322	4.08	75	5	ND	34	80	.2	2	10	53	.96	.214	78	20	.57	65	.22	2	.91	.08	.35	5	136
R146964	1	29	3	20	.1	27	4	287	1.54	161	5	ND	8	14	.2	2	2	22	.12	.011	11	18	.22	71	.07	2	1.19	.01	.12	2	52
R146965	2	51	16	91	.1	48	24	848	4.45	19	5	ND	11	510	.2	3	2	33	3.67	.128	36	68	1.97	75	.01	7	.68	.01	.24	4	26
R146966	1	7	4	15	.1	14	4	111	1.32	209	5	ND	7	10	.2	2	3	16	.09	.011	13	18	.20	40	.02	5	.78	.02	.11	2	33
R146967	19	26	7	19	.6	18	4	291	2.89	3245	5	4	4	28	.2	74	5	9	.04	.010	15	31	.03	17	.01	2	.29	.01	.10	3	4500
R146968	2	14	2	25	.1	14	6	135	1.30	86	5	ND	8	5	.2	2	2	20	.04	.009	18	21	.27	25	.05	2	.77	.01	.27	2	29
R146969	2	119	4	9	.6	9	2	84	2.61	27	5	ND	8	9	.2	2	21	11	.05	.009	9	20	.14	17	.08	4	.67	.03	.12	46	370
R146970	1	70	3	17	.1	9	3	141	1.74	15	5	ND	6	14	.2	2	12	10	.33	.009	11	17	.22	85	.07	3	.76	.04	.19	15	120
R146971	1	176	5	2	1.1	4	1	70	6.57	62	5	2	4	26	.2	2	228	9	.05	.008	6	28	.08	13	.07	2	.59	.04	.09	278	2900
R146972	1	131	12	9	.7	16	13	108	2.19	1253	5	4	6	5	.2	3	179	7	.06	.008	9	44	.37	17	.02	5	.71	.02	.10	432	3400
R146973	3	73	12	3	1.8	20	8	76	.80	596	5	20	1	1	.2	8	1164	1	.08	.002	2	49	.01	2	.01	4	.04	.01	.01	476	18400
R146974	10	6	7	83	.1	36	4	306	15.95	1840	5	ND	2	4	.2	10	7	14	.01	.032	9	25	.01	16	.01	2	.35	.01	.06	19	83
R146975	2	52	9	102	.1	71	23	592	4.24	62	5	ND	9	158	.2	2	5	112	2.76	.120	18	239	2.20	360	.40	2	2.19	.08	2.32	6	37
STANDARD C/AU-R	18	57	38	133	7.0	71	34	1044	3.96	41	20	7	39	52	18.6	16	18	56	.48	.090	40	58	.88	177	.09	33	1.90	.07	.15	11	490

ELGER
ZONE

GEOCHEMICAL ANALYSIS CERTIFICATE

Clear Cr. (66)

Noranda Exploration Co. Ltd. PROJECT 9107-101-352

File # 91-2921 Page 1

1050 Davie St., Vancouver BC V6E 1M4

AA
LLAA
LL

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*	Hg
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppb	ppb	
146151 ELGER	1	135	2	79	.5	9	5	387	8.51	1062	5	ND	6	9	.8	2	9	126	.30	.105	8	164	3.10	77	.12	5	3.79	.03	.24	1	68	15
146152 ZONE	11	15	12	4	4.1	12	289	46	13.19	99999	33	48	5	29	.9	75	1418	7	.50	.002	2	86	.07	22	.01	2	.10	.01	.10	28	37000	5
146153 (WILSON	4	57	3	52	1.8	17	22	168	1.86	6004	5	12	4	15	.2	11	534	20	.30	.024	5	59	.44	134	.04	2	.47	.02	.28	1760	9500	5
146154 VEIN)	2	36	23	20	2.8	10	8	157	6.12	54520	5	8	5	85	.2	38	432	50	.86	.032	7	91	.77	198	.04	4	1.18	.02	.25	812	7100	5
146155	3	11	8	7	1.2	13	7	85	2.97	25885	5	8	1	18	.2	24	283	10	.17	.006	2	40	.20	40	.01	3	.25	.01	.05	73	6900	5
146156	3	36	71	21	7.6	11	26	152	8.14	81340	6	8	5	56	.6	68	237	37	.53	.028	5	69	.56	54	.06	4	.94	.02	.21	46	6900	10
146157	1	16	11	5	2.2	8	22	100	3.10	43230	5	15	3	10	.2	26	575	11	.14	.010	2	51	.18	43	.01	2	.21	.01	.08	2242	12600	5
146158	2	22	5	20	.5	16	13	186	2.01	2938	5	2	3	41	.2	3	206	37	.45	.030	6	63	.73	249	.09	3	.98	.04	.30	91	2320	5
146159	1	17	4	13	.4	14	23	141	4.64	53821	5	2	3	20	.2	16	174	28	.19	.022	4	55	.62	90	.04	2	.63	.02	.18	43	2590	5
146160	1	16	85	15	4.5	8	8	129	9.33	65534	8	3	8	108	.6	53	204	67	.73	.038	8	81	.51	87	.01	3	.95	.02	.17	93	3600	5
146162	1	443	12	30	2.8	20	13	178	8.64	2717	5	7	4	28	.6	4	204	62	.35	.037	5	102	1.33	57	.19	8	1.49	.04	.61	9	6000	5
STANDARD C/AU-R	17	59	37	133	6.9	70	33	1091	4.00	43	16	6	40	52	18.6	15	22	55	.51	.093	40	59	.89	182	.09	33	1.97	.06	.16	11	470	1650

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB.
- SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. HG ANALYSIS BY FLAMELESS AA.

DATE RECEIVED: JUL 26 1991

DATE REPORT MAILED: July 31/91

SIGNED BY: C. Leong, D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE

Clear Cr (66)



Noranda Exploration Co. Ltd. PROJECT 9107-104 352 File # 91-2899 Page 1

1050 Davie St., Vancouver BC V6E 1M4

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppb
R145662	3	20	61	3	3.6	11	8	67	6.42	99999	5	7	1	30	.2	88	281	6	.08	.007	2	1	.08	14	.01	2	.19	.01	.03	52	7150
R145663	2	41	203	6	14.7	4	22	84	27.43	97273	5	13	2	55	.2	371	552	5	.33	.013	5	1	.01	9	.01	2	.25	.01	.03	1	11520
R145664	1	41	10	57	.5	14	11	312	4.55	7797	5	ND	13	180	.2	13	19	79	1.46	.107	23	65	1.79	498	.30	7	4.07	.27	2.17	25	330
R145665	1	41	6	65	.1	10	12	356	3.91	523	5	ND	12	403	.2	4	20	73	2.02	.112	22	55	1.62	499	.31	9	4.25	.31	1.98	18	231
R145666	4	31	199	6	20.1	4	39	94	20.05	99999	5	35	1	120	.6	146	1561	13	1.36	.012	7	1	.02	24	.01	2	.20	.02	.10	18	30000
R145667	1	113	9	46	.5	12	15	309	5.81	5422	5	ND	13	47	.2	5	30	130	.58	.108	23	133	3.04	590	.30	2	4.43	.04	3.18	10	360
R145668	2	19	13	32	.1	11	11	133	1.75	716	5	ND	3	12	.2	2	13	35	.19	.025	5	40	1.03	45	.04	3	1.06	.02	.16	15	200
R145669	1	576	5	9	1.3	11	29	163	6.62	639	5	ND	13	65	.2	2	70	7	1.20	.107	16	36	.15	15	.06	28	.71	.02	.08	275	750
R145670	1	107	4	17	1.7	14	17	159	3.37	7639	5	3	13	68	.2	4	59	42	.48	.064	24	60	1.13	211	.18	3	1.60	.08	.75	128	2280
R145671	1	225	7	20	1.2	28	28	286	4.75	8227	5	4	8	296	.2	7	96	20	2.26	.020	14	35	.49	63	.10	3	3.68	.19	.48	161	3250
R145672	1	133	2	49	.3	41	18	348	4.59	127	5	ND	9	195	.2	2	29	35	1.79	.022	14	45	.86	59	.24	2	3.39	.13	1.29	19	1240
R145673	1	360	2	13	.8	20	15	567	4.71	231	5	ND	8	213	.2	2	77	13	1.63	.018	12	29	.30	25	.10	2	2.31	.25	.18	160	1010
R145674	1	47	7	74	.2	37	11	215	4.88	143	5	ND	16	22	.2	2	4	58	.18	.056	35	59	1.32	106	.32	2	2.94	.03	2.22	4	161
R145675	1	132	8	49	.9	27	15	201	3.86	1523	5	3	10	71	.2	3	143	42	.57	.015	17	52	.94	71	.19	2	2.65	.09	1.28	166	2100
R145676	1	77	3	37	.6	27	14	178	3.99	1876	5	2	9	76	.2	2	63	39	.40	.015	16	49	.85	77	.18	2	2.24	.09	1.10	175	1400
R145677	1	105	5	66	.3	31	12	267	4.46	105	5	ND	11	99	.2	2	14	46	.97	.014	18	48	1.09	77	.22	2	3.61	.14	1.68	15	350
R145678	1	49	5	71	.2	39	14	252	4.17	540	5	ND	14	41	.2	2	11	53	.42	.022	29	65	1.35	87	.28	2	3.07	.08	1.87	132	171
R145679	1	194	8	35	.8	32	22	287	4.01	6181	5	3	10	198	.2	5	94	39	1.32	.028	15	54	.74	57	.16	11	2.79	.18	.72	214	1580
R145680	1	345	5	22	.6	33	38	237	5.59	15056	5	ND	10	202	.2	9	61	30	1.35	.025	13	51	.72	37	.09	5	2.93	.19	.62	358	1140
R145681	3	10	12	4	.6	13	2	72	.53	116	5	ND	1	10	.3	2	49	5	.05	.002	2	24	.07	11	.01	4	.16	.02	.04	152	1080
R145682	8	14	199	3	10.9	6	28	90	22.56	99999	5	104	1	55	.4	294	2411	5	.10	.008	2	1	.04	9	.01	2	.14	.01	.05	207	68000
R145683	3	8	14	5	2.5	24	79	94	16.58	99999	5	18	3	72	.3	97	567	21	.20	.013	2	50	.28	15	.02	4	.37	.01	.16	2064	15000
R145684	3	8	6	4	1.0	17	39	81	6.75	98553	5	16	3	51	.3	46	356	21	.24	.017	3	186	.36	36	.03	7	.34	.01	.29	2892	9500
R145685	3	282	6	18	2.9	13	8	136	4.12	1861	5	ND	13	46	.3	2	42	31	.46	.069	15	36	.91	114	.17	4	1.53	.07	.29	72	260
R145686	1	164	5	11	.7	16	26	136	3.85	19127	5	ND	6	39	.2	4	76	17	.09	.014	11	25	.25	39	.06	2	1.05	.04	.16	171	1260
R145687	2	162	2	8	.9	23	22	89	4.26	27948	5	3	6	57	.3	7	113	14	.28	.016	10	31	.30	48	.04	4	1.43	.04	.15	333	2080
R145688	1	142	3	18	.9	17	14	174	3.50	3425	5	ND	7	108	.2	2	36	31	.93	.017	12	31	.84	47	.08	4	1.95	.12	.58	126	1090
R145689	1	451	3	28	1.2	17	40	231	7.03	11109	5	ND	12	180	.2	3	45	55	1.97	.029	20	40	1.89	78	.12	2	4.05	.23	1.64	137	1350
R145690	1	30	6	58	.2	29	11	235	3.24	193	5	ND	16	103	.2	2	3	46	.86	.076	23	41	1.01	103	.21	3	2.81	.14	1.37	6	53
R145691	1	116	2	29	.2	8	8	364	4.17	297	5	ND	13	134	.3	2	7	56	1.19	.102	25	35	1.20	283	.28	2	2.16	.14	1.23	9	88
R145692	1	30	6	31	.3	7	21	320	3.44	4975	5	ND	14	71	.2	4	8	52	.82	.101	26	31	1.37	282	.19	2	1.92	.09	.69	3	169
R145693	1	96	598	23	35.7	43	141	201	24.05	99999	5	34	2	156	1.2	340	1585	29	.11	.014	3	1	.99	12	.01	2	1.10	.01	.19	19	28000
R145694	2	18	24	6	1.5	14	29	81	4.54	47615	5	8	1	9	.3	59	292	12	.05	.006	2	23	.26	45	.01	2	.33	.01	.11	382	9600
R145695	7	57	308	1	15.6	53	82	87	24.98	99999	5	379	1	3	.2	271	10246	1	.01	.002	2	1	.01	6	.01	5	.07	.01	.01	17	319500
R145696	3	27	9	5	1.6	11	2	72	.83	1276	5	9	1	4	.3	4	297	5	.02	.003	2	29	.11	28	.01	5	.17	.01	.06	194	5650
R145697	2	14	52	9	2.6	20	41	119	5.24	50880	5	9	3	23	.3	65	197	17	.14	.013	3	150	.54	11	.01	6	.44	.01	.03	2487	5990
STANDARD C/AU-R	17	58	39	131	6.7	70	34	1034	3.92	40	17	7	36	53	18.7	15	18	56	.48	.090	37	58	.88	175	.09	32	1.87	.06	.15	13	470

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB. - SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 26 1991 DATE REPORT MAILED: July 31/91. SIGNED BY: [Signature] D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE

Clear Cr. (66)

Noranda Exploration Co. Ltd. PROJECT 9108-080 352

File # 91-3690

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1050 Davie St., Vancouver BC V6E 1N4

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	U ppm	Au* ppb
R146601	1	60	63	65	.6	39	18	342	3.71	291	5	ND	12	126	.4	2	20	65	.96	.062	16	124	2.08	366	.25	3	4.00	.18	.86	32	440
R146602	1	60	46	58	.9	34	17	275	3.74	2488	5	3	10	168	.5	5	158	61	.95	.053	16	117	1.84	366	.23	5	3.95	.19	1.08	100	4200
RE R146607	1	57	7	54	.6	31	13	231	3.07	429	5	ND	12	106	.5	2	75	49	.99	.058	19	82	1.40	454	.21	4	3.57	.20	.87	22	2040
R146603	1	60	31	61	.4	39	16	261	3.15	312	5	ND	10	127	.6	2	18	59	1.00	.053	16	114	1.79	465	.23	5	3.95	.20	1.05	15	290
R146604	1	37	7	66	.2	40	13	242	3.00	139	5	ND	10	158	.7	2	5	56	1.54	.063	18	93	1.61	456	.26	7	4.15	.30	1.10	11	51
R146605	1	37	6	67	.3	37	14	276	3.20	301	5	ND	11	145	.5	2	7	58	1.33	.064	17	96	1.76	539	.26	5	4.07	.25	1.07	9	160
R146606	2	48	4	55	.3	38	14	245	3.07	174	5	ND	10	140	.2	2	19	54	1.28	.053	15	93	1.64	376	.24	5	3.71	.24	.94	13	490
R146607	1	57	7	56	.6	32	14	238	3.14	417	5	2	12	107	.6	2	71	50	1.02	.061	20	83	1.43	458	.22	5	3.64	.20	.86	21	1980
R146608	1	30	6	73	.1	22	12	261	3.18	68	5	ND	11	177	.6	2	3	64	1.82	.064	17	94	1.49	584	.29	12	4.57	.32	1.11	2	64
R146609	2	38	7	14	.1	8	8	108	1.23	114	5	ND	22	92	.2	2	21	16	.27	.022	26	18	.25	249	.04	10	1.87	.08	.16	2	570
R146610	1	28	5	69	.1	19	12	257	3.21	65	5	ND	10	177	.5	2	2	66	2.00	.057	14	93	1.48	638	.30	11	4.73	.34	1.08	2	37
R146611	1	30	6	65	.1	16	12	286	3.26	43	5	ND	10	198	.6	2	2	72	2.02	.056	15	112	1.64	595	.28	14	4.86	.35	1.12	1	30
R146612	1	33	6	60	.1	18	12	246	2.91	116	5	ND	10	210	.5	2	2	68	1.83	.061	15	130	1.51	430	.21	15	4.74	.33	.95	2	92
R146613	1	21	6	62	.1	20	12	247	2.83	47	5	ND	11	172	.4	2	2	63	1.70	.058	15	111	1.43	562	.25	11	4.41	.31	.99	1	38
R146614	1	34	3	36	.3	16	14	244	3.58	6973	5	ND	11	109	.4	6	49	54	.47	.044	19	94	1.30	269	.18	7	3.15	.07	.96	22	1890
R146615	1	29	6	68	.1	20	14	315	3.44	112	5	ND	14	165	.5	2	2	60	1.52	.079	23	86	1.67	364	.31	16	4.15	.29	1.30	1	61
R146616	1	58	10	71	.3	36	22	500	4.29	254	5	ND	14	145	.6	2	10	87	.72	.099	25	165	2.09	891	.36	3	4.35	.09	1.43	4	380
R146617	1	84	15	83	.2	51	23	601	4.19	149	5	ND	14	88	.5	2	2	90	.90	.128	27	135	1.76	1061	.40	4	2.34	.06	.90	3	57
R146618	1	44	16	70	.7	17	17	448	4.22	401	5	ND	14	135	.7	2	39	81	.79	.111	23	137	1.83	456	.35	6	4.04	.09	1.09	16	730
R146619	1	29	6	54	.2	20	18	304	3.22	467	5	ND	14	148	.7	2	33	59	1.12	.064	22	92	1.43	310	.27	15	3.57	.20	1.02	62	1120
R146620	1	36	7	60	.1	13	12	333	3.37	160	5	ND	12	164	.5	2	8	79	1.56	.071	16	125	1.60	740	.34	7	4.10	.26	1.18	19	94
R146621	1	55	7	55	.3	17	17	366	4.36	661	5	ND	12	123	.7	2	34	91	.72	.069	21	142	1.92	757	.32	6	4.27	.09	1.22	15	660
R146622	1	38	8	71	.1	16	13	350	3.60	108	5	ND	20	189	.6	2	2	62	1.68	.094	34	55	1.45	399	.35	15	4.45	.30	1.31	5	65
R146623	1	688	5	25	1.0	26	19	158	6.81	3423	5	4	14	124	.7	6	268	37	.77	.098	26	51	.78	146	.12	11	4.02	.11	.52	600	4720
R146624	1	38	8	73	.1	13	13	385	3.86	171	5	ND	19	173	.6	2	5	60	1.45	.091	32	56	1.53	324	.33	12	4.24	.24	1.27	19	83
R146625	1	36	8	65	.1	12	12	363	3.59	147	5	ND	18	158	.4	2	22	56	1.12	.085	31	58	1.44	352	.34	9	4.00	.20	1.19	117	470
R146626	1	40	9	72	.2	14	13	395	3.78	222	5	ND	18	170	.5	2	8	63	1.33	.088	32	63	1.50	334	.36	9	4.00	.21	1.09	19	98
R146627	1	34	9	74	.1	12	13	385	3.83	181	5	ND	19	155	.6	2	7	65	1.30	.088	34	64	1.56	340	.37	10	3.93	.23	1.14	44	270
R146628	1	35	14	67	.2	14	14	373	3.73	344	5	ND	19	136	.4	2	11	64	1.10	.092	30	66	1.55	266	.32	7	3.48	.14	.83	10	190
R146629	2	439	20	39	.8	9	14	327	4.80	2242	5	ND	15	66	.5	2	42	61	.55	.092	32	48	1.20	168	.16	4	2.31	.07	.38	24	680
R146630	1	320	8	36	.4	7	12	372	4.33	1600	5	ND	16	82	.3	2	25	61	.66	.103	30	52	1.21	318	.21	3	2.46	.08	.56	13	430
R146631	1	111	13	42	.4	8	14	825	4.49	6728	5	ND	17	78	.5	7	36	52	.61	.101	38	36	.91	240	.08	4	1.79	.06	.32	13	1180
R146632	1	73	8	73	.1	16	15	713	4.84	755	5	ND	17	91	.4	3	3	77	1.01	.110	37	71	1.54	428	.20	2	3.32	.06	.79	11	94
R146633	1	69	21	86	.7	29	18	782	5.06	293	5	ND	23	83	.7	2	15	99	.75	.159	52	73	2.25	724	.28	2	2.98	.03	1.00	3	125
R146634	1	46	9	72	.1	13	14	475	4.16	218	5	ND	20	209	.6	2	7	68	1.25	.093	39	67	1.89	273	.24	7	3.92	.13	.96	4	84
R146635	1	41	11	51	.1	7	9	375	2.80	173	5	ND	23	78	.3	2	13	33	2.22	.061	48	29	1.02	97	.05	2	2.59	.04	.33	1	520
R146636	1	34	12	74	.1	13	11	363	3.59	238	5	ND	20	172	.6	2	4	56	1.63	.086	35	52	1.48	320	.29	16	4.00	.27	1.14	21	83
STANDARD C/AU-R	19	61	39	134	7.2	74	34	1064	4.01	42	16	7	41	51	18.7	19	19	55	.48	.090	40	59	.90	180	.09	34	1.90	.06	.15	11	520

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.

ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB

- SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 20 1991

DATE REPORT MAILED: Aug 27/91.

SIGNED BY: C. Leong, D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL ANALYSIS CERTIFICATE

Clear Cr. (66)

Noranda Exploration Co. Ltd. PROJECT 9109-022 352

File # 91-4087 Page 1

1050 Davie St., Vancouver BC V6E 1M4

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	M ppm	Au* ppb
R146638	1	36	14	59	.1	33	16	398	3.66	75	5	ND	13	18	.2	2	2	45	.15	.020	27	47	1.06	150	.21	2	2.25	.06	1.24	1	38
R146639	1	23	7	57	.1	35	14	366	3.74	45	5	ND	11	21	.4	2	2	43	.19	.022	23	46	.93	157	.21	4	2.23	.05	1.16	1	14
R146640	1	21	11	22	.3	17	7	255	1.45	47	5	ND	6	9	.2	2	2	17	.08	.010	15	19	.33	53	.05	3	.81	.03	.27	1	16
R146641	2	31	23	38	.2	25	11	270	2.39	87	5	ND	11	19	.2	6	2	29	.12	.018	23	31	.56	85	.10	4	1.52	.03	.59	2	27
R146642	1	30	8	55	.1	30	13	324	3.23	70	5	ND	14	25	.2	2	2	40	.37	.106	31	45	.86	132	.17	2	2.16	.04	1.09	3	28
R146643	1	33	4	68	.1	34	17	397	3.99	77	5	ND	15	8	.2	2	2	29	.08	.024	36	33	.63	100	.11	6	1.61	.02	.83	1	11
R146644	2	22	5	58	.2	28	13	343	3.29	30	5	ND	.11	5	.2	2	2	36	.06	.016	22	34	.74	117	.16	2	1.73	.03	1.00	1	10
R146645	2	23	8	30	.1	20	7	256	1.93	40	5	ND	9	10	.2	2	2	25	.07	.013	17	26	.40	83	.08	2	1.01	.04	.35	1	10
R146646	1	26	5	23	.1	15	6	205	1.55	77	5	ND	7	21	.2	2	2	22	.16	.011	13	20	.33	95	.07	4	.98	.03	.25	2	48
R146647	1	29	3	38	.1	26	10	273	2.55	107	5	ND	11	19	.2	2	2	33	.19	.027	22	34	.62	107	.13	3	1.57	.04	.71	14	17
R146648	1	39	5	44	.1	21	10	265	2.79	172	5	ND	10	15	.2	2	2	32	.11	.019	20	34	.69	98	.16	5	1.57	.03	.84	4	20
R146649	2	25	5	57	.1	34	13	308	3.54	100	5	ND	16	8	.2	2	4	41	.07	.013	36	52	.98	134	.20	2	2.15	.03	1.26	3	35
R146650	1	26	5	64	.1	32	16	353	3.59	172	5	ND	13	25	.2	2	5	42	.19	.014	26	48	1.03	136	.23	2	2.46	.05	1.40	1	30
R146651	1	63	6	49	.3	30	16	275	3.50	1265	5	ND	10	50	.2	2	4	35	.32	.012	17	40	.85	116	.17	2	2.25	.05	1.00	77	220
R146652	1	46	2	53	.1	32	13	310	3.85	198	5	ND	14	25	.2	2	2	45	.25	.063	26	49	1.04	128	.21	2	2.33	.03	1.31	10	18
R146653	2	55	2	71	.1	40	18	411	5.03	143	5	ND	13	104	.2	2	2	61	.93	.025	21	69	1.59	226	.29	2	4.30	.13	2.10	1	10
R146654	1	54	2	57	.1	36	17	394	4.41	402	5	ND	13	34	.2	2	2	50	.34	.024	21	55	1.26	173	.26	4	2.94	.07	1.69	1	44
R146655	1	60	2	53	.1	31	14	369	4.20	235	5	ND	12	54	.2	2	2	50	.48	.023	19	52	1.19	156	.24	3	2.96	.11	1.50	1	40
R146656	2	48	4	26	.3	16	7	184	2.16	473	7	ND	18	75	.3	2	2	16	.57	.018	22	22	.45	107	.09	2	1.82	.16	.53	1	43
R146657	1	37	2	52	.2	27	11	277	3.34	111	5	ND	16	36	.2	2	2	37	.28	.016	22	48	.94	136	.21	2	2.26	.09	1.20	1	13
R146658	1	43	6	53	.1	29	13	289	3.44	128	5	ND	11	20	.2	2	2	39	.18	.013	19	44	.97	123	.22	2	2.15	.05	1.28	1	20
R146659	2	40	2	31	.1	19	9	257	2.27	600	5	ND	10	34	.2	2	2	29	.27	.013	16	30	.51	94	.11	2	1.41	.07	.51	13	77
R146660	1	32	3	57	.1	31	13	340	3.61	175	5	ND	12	11	.3	2	2	41	.09	.021	24	44	.95	125	.21	2	2.13	.03	1.21	1	62
R146661	1	45	2	70	.1	43	16	348	4.41	144	5	ND	16	9	.2	2	3	44	.09	.025	36	52	1.11	118	.20	5	2.44	.02	1.26	1	49
R146662	1	39	3	32	.2	23	9	277	2.27	175	5	ND	9	15	.2	2	3	24	.11	.012	17	28	.49	62	.09	4	1.23	.03	.44	6	77
R146663	1	51	2	49	.2	24	13	229	3.39	1730	5	ND	13	33	.2	2	7	31	.14	.015	27	34	.80	118	.16	3	1.93	.03	.97	20	240
RE R146660	1	31	6	56	.1	30	12	332	3.55	178	5	ND	12	11	.2	2	2	40	.09	.019	24	44	.93	122	.21	2	2.10	.03	1.21	1	49
R146664	2	46	3	24	.1	22	9	162	2.15	593	5	ND	10	23	.2	2	4	22	.20	.038	18	25	.50	100	.10	2	1.29	.03	.51	9	93
R146665	2	40	6	42	.5	24	11	254	3.16	307	5	ND	11	69	.2	2	2	47	.46	.057	19	50	1.00	326	.22	2	2.08	.08	1.14	1	310
R146666	1	26	2	51	.1	23	9	306	3.31	339	5	ND	13	35	.2	2	2	43	.27	.019	24	50	1.03	156	.22	2	2.35	.06	1.35	1	64
R146667	1	32	30	47	.2	25	10	254	2.83	117	5	ND	13	19	.2	2	2	30	.11	.015	25	36	.76	97	.15	2	1.71	.04	.90	2	33
R146668	1	49	2	59	.1	26	13	301	3.69	208	5	ND	12	42	.2	2	2	40	.40	.029	24	47	1.05	124	.22	3	2.55	.06	1.36	1	22
R146669	3	36	7	43	.6	35	15	341	3.47	682	5	ND	16	34	.3	3	31	44	.32	.040	26	46	1.05	175	.20	4	2.17	.06	1.08	40	1270
R146670	5	29	2	50	.1	29	14	324	3.62	732	5	ND	13	33	.2	2	7	48	.31	.034	24	49	1.12	179	.26	4	2.34	.07	1.35	72	510
R146671	2	32	2	58	.1	27	11	285	3.52	101	5	ND	15	25	.2	2	2	39	.17	.015	26	42	.91	111	.21	3	2.24	.05	1.28	1	20
R146672	1	27	6	39	.1	18	10	264	3.00	517	5	ND	12	12	.2	2	2	37	.09	.015	22	39	.74	123	.18	2	1.66	.03	1.03	4	42
R146673	2	26	2	55	.1	31	15	301	3.81	120	5	ND	17	5	.2	2	2	39	.04	.020	39	48	.85	132	.22	7	1.95	.02	1.30	1	24
STANDARD C/AU-R	19	57	38	133	6.9	69	31	1043	3.97	42	17	7	40	50	18.5	16	21	55	.48	.090	39	58	.88	176	.09	32	1.88	.06	.15	13	460

LTR S-1

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB - SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: SEP 3 1991

DATE REPORT MAILED: Sept 9/91

SIGNED BY: [Signature] D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



ANALYTICAL

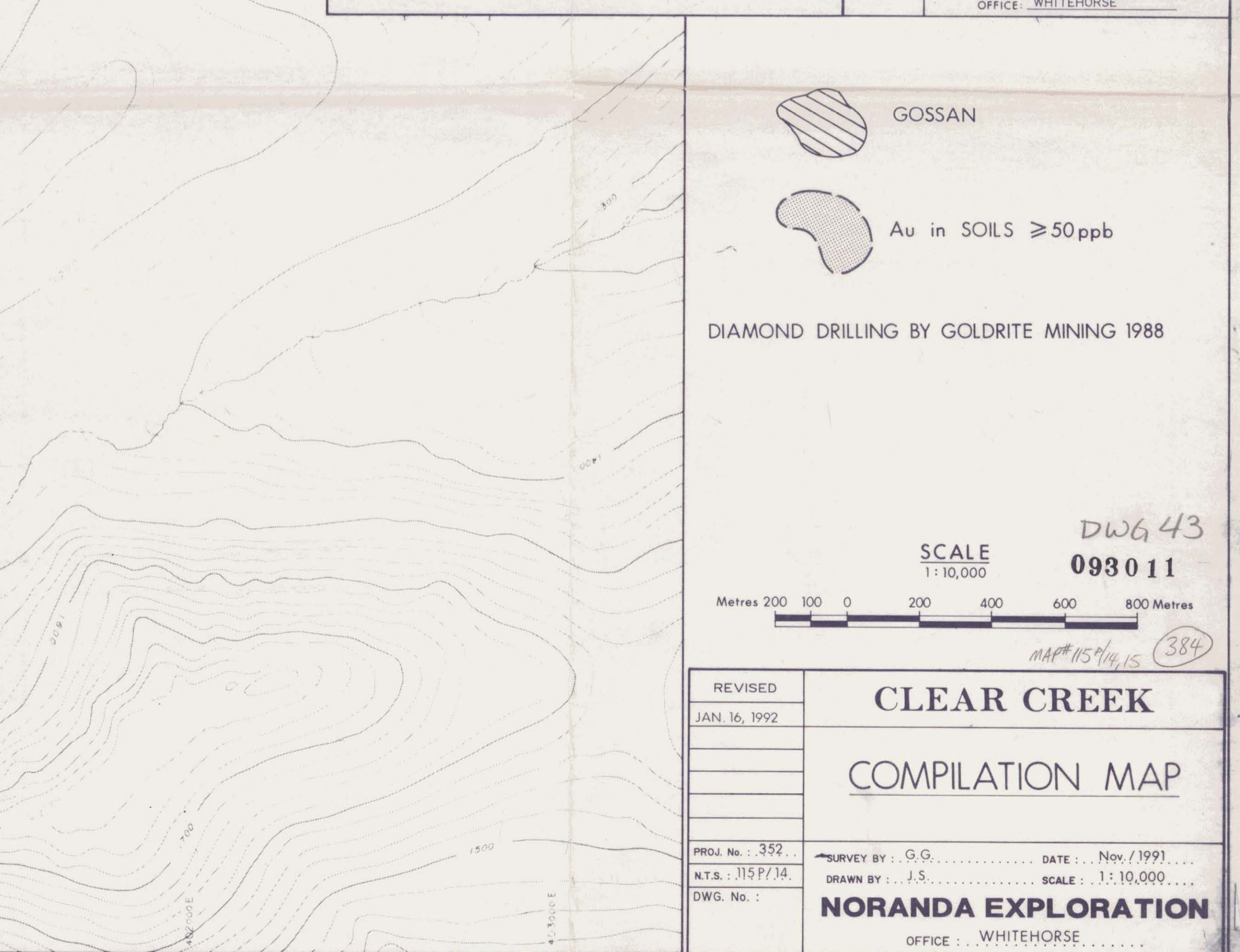
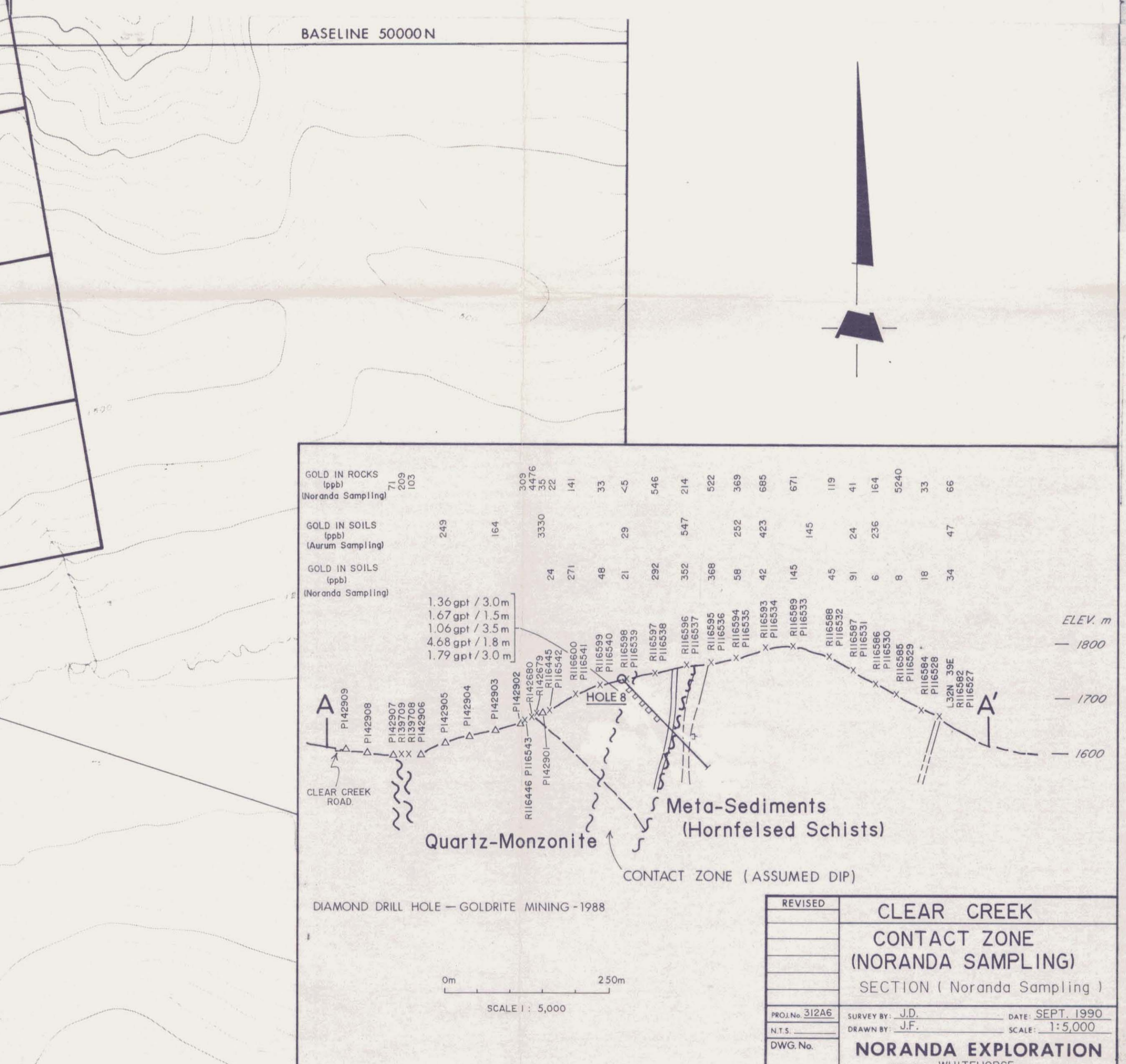
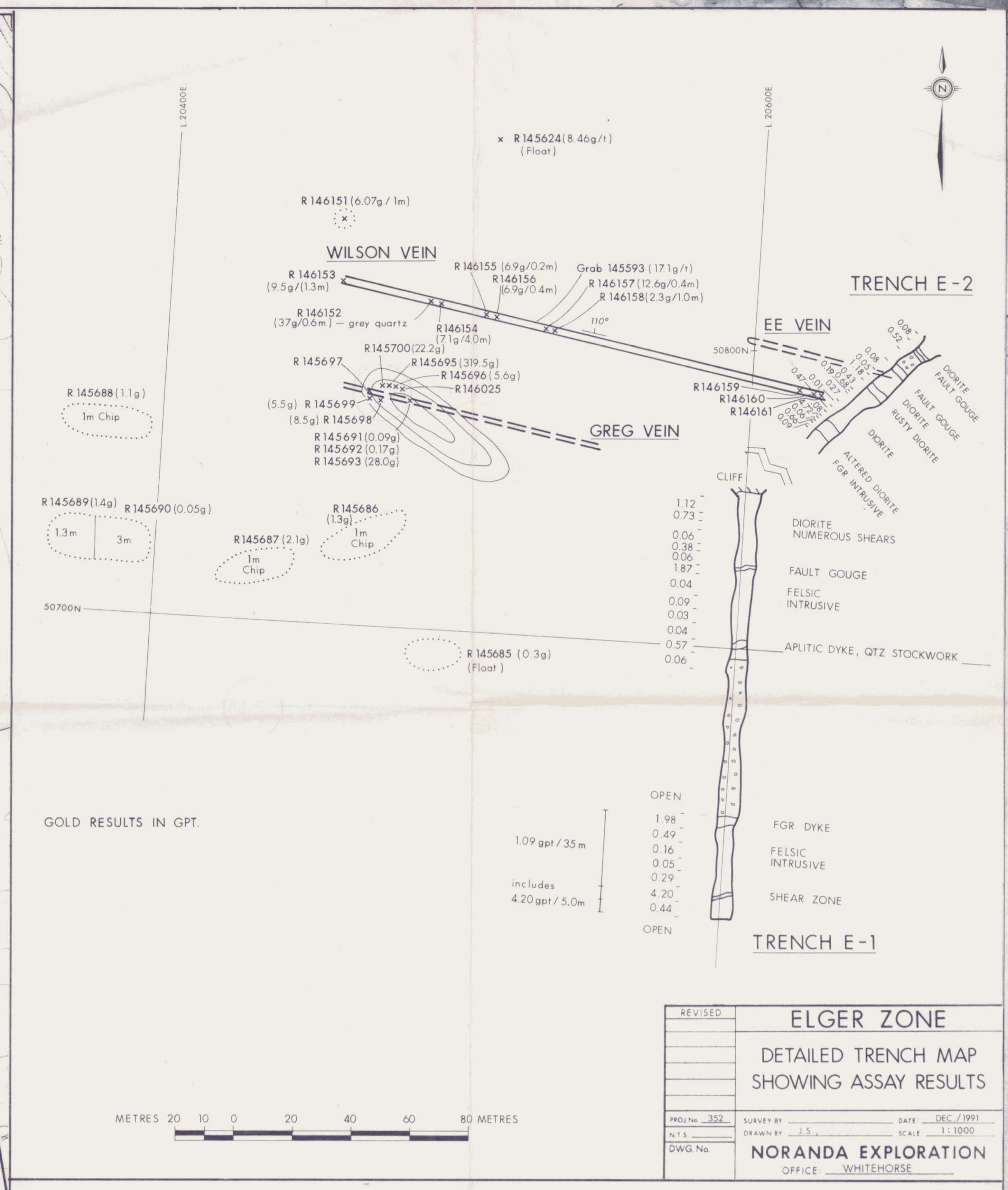
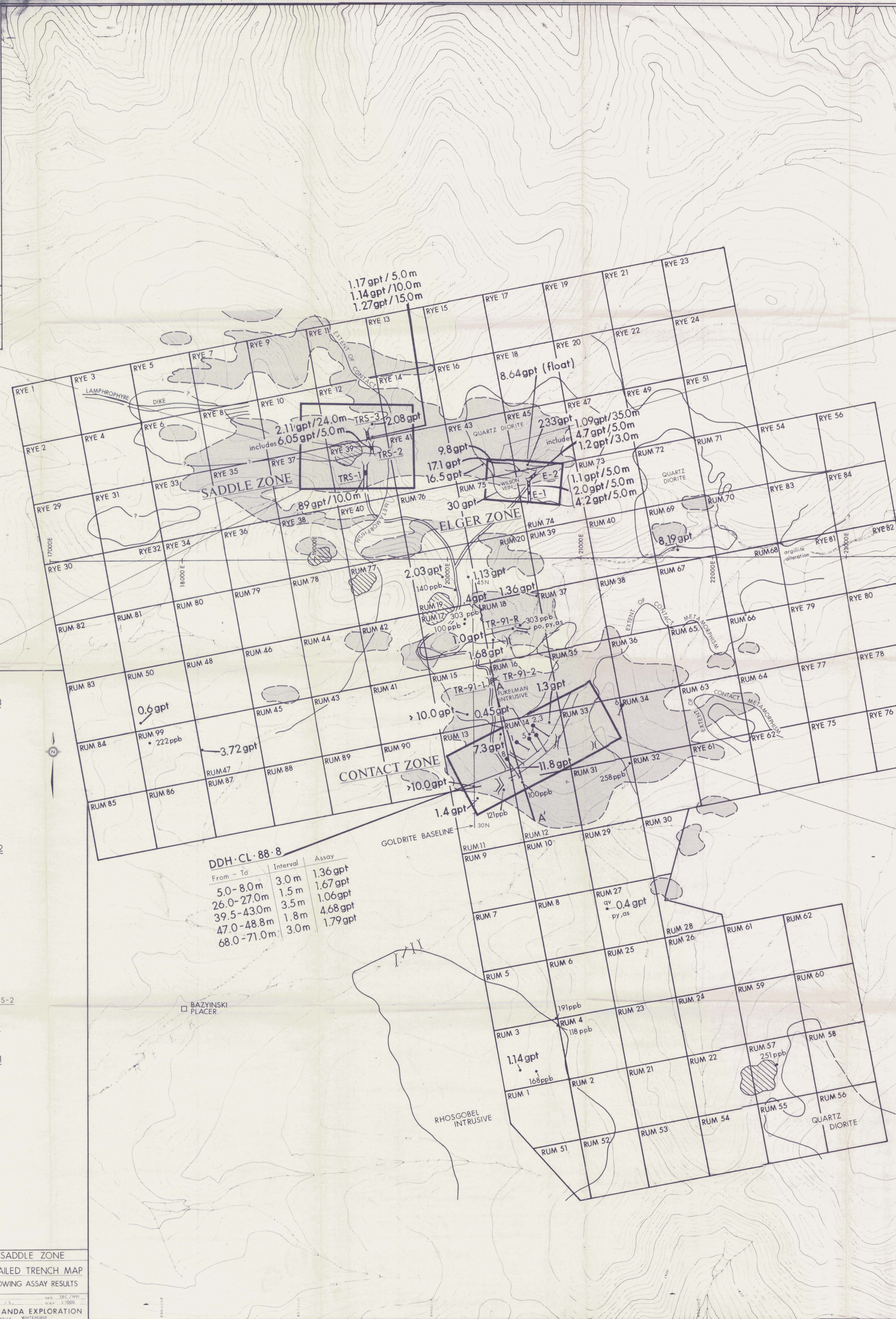
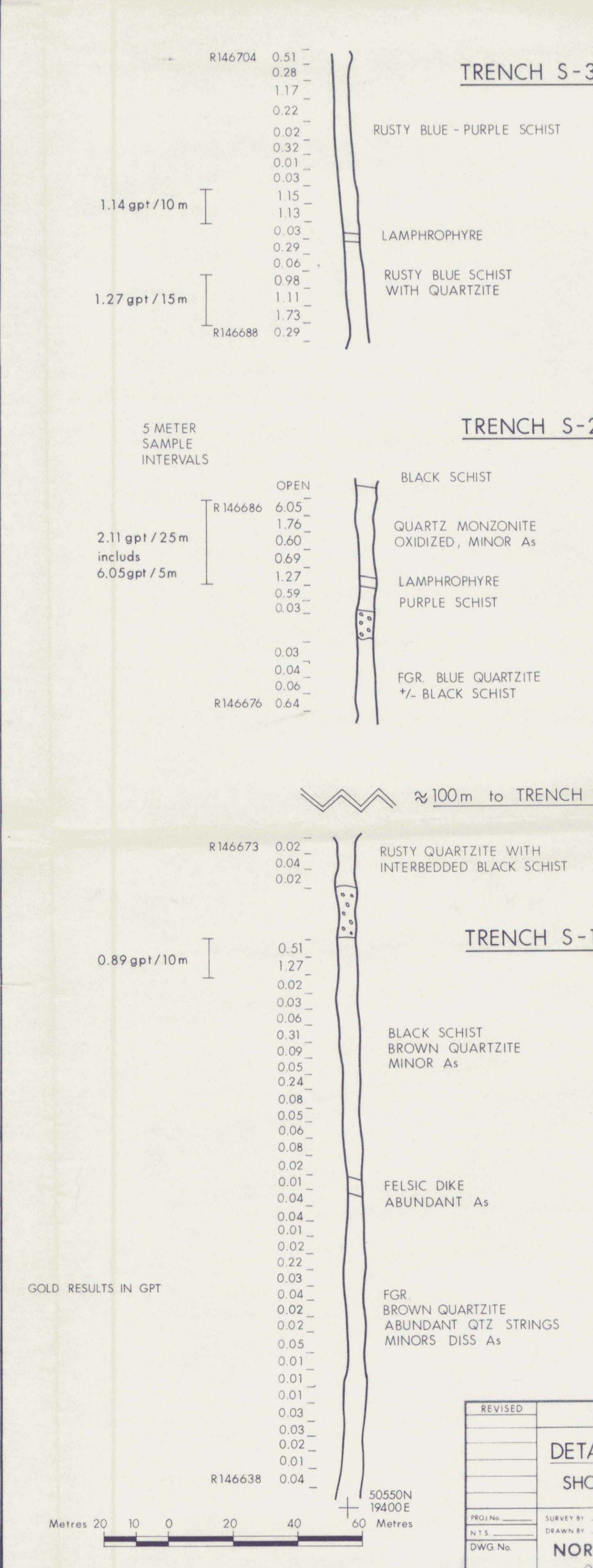
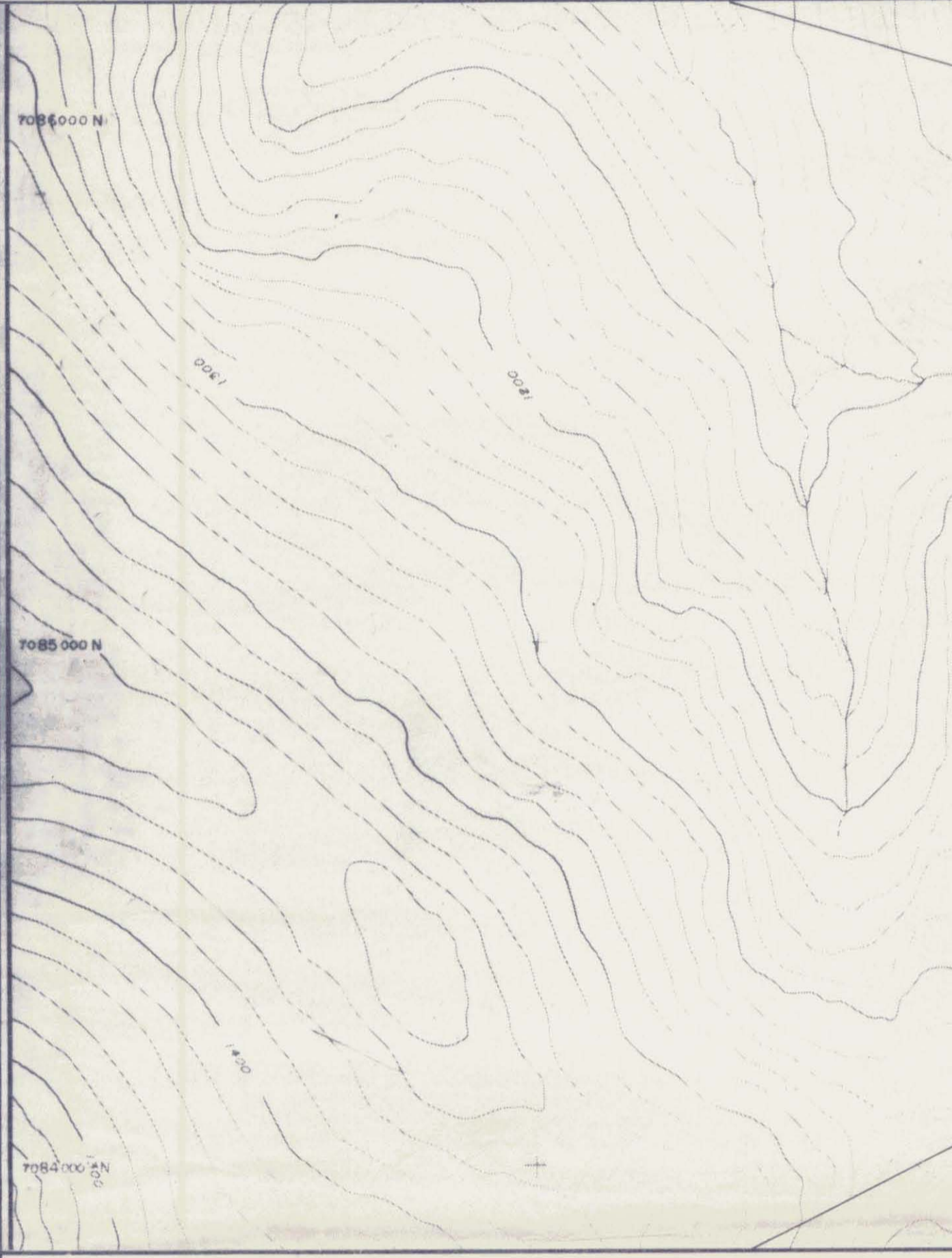
SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Tl %	B ppm	Al %	Na %	K %	U ppm	Au ^g ppb	
R146676	1	34	2	49	.4	21	11	212	3.48	184	5	ND	13	11	.3	2	22	36	.10	.026	25	35	.73	170	.16	6	1.73	.03	.90		63	640
R146677	1	45	9	54	.1	30	11	270	3.18	87	5	ND	12	23	.2	2	3	44	.24	.030	25	58	.95	260	.21	5	1.88	.04	1.05		3	55
R146678	1	21	2	42	.1	25	9	237	2.65	231	5	ND	12	9	.2	2	3	32	.10	.017	26	37	.71	134	.15	3	1.60	.03	.84		2	36
R146679	1	40	7	50	.1	38	14	280	3.58	198	5	ND	11	28	.2	8	2	49	.28	.039	23	71	1.05	213	.21	5	2.17	.03	1.08		5	31
R146680	1	27	3	44	.1	22	10	224	2.60	262	5	ND	12	12	.2	2	2	38	.12	.017	28	45	.68	108	.15	3	1.51	.03	.84		24	30
R146681	2	44	6	30	.1	18	8	219	2.46	1096	5	ND	10	83	.2	4	9	33	.56	.063	23	31	.65	174	.16	4	1.48	.10	.56		18	590
R146682	1	88	24	17	1.8	6	6	111	2.31	1136	6	ND	20	39	.2	13	24	27	.27	.045	28	15	.50	132	.10	7	1.08	.08	.35		32	1270
R146683	3	69	5	14	.2	11	4	102	2.09	575	6	ND	.20	49	.2	2	12	28	.29	.046	19	20	.51	156	.13	6	1.16	.11	.40		83	690
R146684	4	97	3	13	.3	8	6	101	2.37	871	7	ND	19	52	.2	2	12	29	.25	.047	18	18	.49	179	.13	7	1.13	.10	.43		48	600
R146685	2	100	7	15	.3	7	7	128	2.69	2050	5	2	20	38	.2	3	43	26	.30	.049	34	14	.49	147	.10	8	1.08	.07	.36		89	1760
R146686	1	42	20	15	1.4	9	8	147	1.84	2328	5	12	21	24	.2	4	73	18	.36	.049	43	13	.37	99	.05	8	.77	.03	.25		138	6050
R146688	3	68	2	46	.2	22	11	271	2.86	273	5	ND	10	99	.2	2	6	43	1.19	.016	20	44	.91	70	.20	6	2.96	.14	.91		29	290
R146689	1	153	2	32	1.0	16	16	225	2.75	500	5	2	10	199	.2	4	54	28	2.19	.018	19	28	.63	53	.15	6	3.16	.15	.53		131	1730
R146690	1	135	2	37	.5	26	16	445	2.98	278	5	ND	9	261	.2	2	44	37	3.78	.021	19	36	.80	67	.19	4	3.90	.24	.70		111	1110
R146691	2	91	2	46	.4	23	14	310	2.97	485	5	ND	9	100	.2	2	26	31	1.24	.011	18	38	.72	64	.14	2	2.14	.06	.77		95	980
R146692	1	47	3	75	.3	19	10	285	3.80	40	5	ND	15	52	.2	2	3	43	.68	.023	28	45	1.12	109	.22	5	2.69	.06	1.32		11	59
R146693	2	49	2	68	.1	26	15	395	3.48	410	5	ND	13	85	.2	3	5	51	1.29	.046	24	49	1.18	217	.21	4	2.67	.08	1.12		14	290
R146694	2	58	2	51	.1	31	15	431	2.95	60	5	ND	10	144	.2	2	2	40	2.02	.032	19	41	.96	114	.18	5	2.96	.10	.91		5	30
R146695	1	54	3	45	.4	16	10	402	2.36	275	5	ND	9	148	.2	2	25	34	2.86	.021	19	33	.80	55	.18	5	2.68	.13	.77		56	1130
R146696	1	36	2	31	.2	47	37	283	1.61	653	5	ND	10	212	.2	3	26	28	3.35	.020	23	32	.58	60	.17	10	3.32	.14	.47		40	1150
RE R146692	1	46	4	75	.1	16	10	307	3.83	41	5	ND	15	54	.2	2	2	43	.71	.024	28	45	1.12	108	.23	5	2.76	.06	1.35		11	57
R146697	1	37	2	52	.1	19	10	312	2.78	20	5	ND	11	60	.2	2	2	37	1.13	.017	23	42	.89	83	.19	4	2.42	.10	.90		4	26
R146698	1	39	2	65	.1	24	13	248	3.48	55	5	ND	13	13	.2	2	2	36	.17	.017	26	43	1.01	94	.20	5	2.05	.04	1.20		2	13
R146699	2	83	3	53	.2	29	18	361	3.37	76	5	ND	8	71	.2	2	9	40	.90	.044	19	44	.93	76	.19	6	2.68	.14	.99		26	320
R146700	2	64	2	92	.2	37	20	921	4.15	60	5	ND	10	67	.2	2	2	64	1.09	.028	22	57	1.56	127	.30	7	4.19	.22	1.66		5	23
R146701	1	41	2	55	.1	21	12	358	2.49	42	5	ND	10	134	.2	2	2	36	1.51	.019	23	35	.90	67	.20	6	3.29	.18	.87		6	220
R146702	2	58	2	65	.2	32	21	387	3.36	287	5	ND	12	113	.2	3	11	59	1.54	.039	25	75	1.29	182	.27	5	3.71	.23	1.26		14	1170
R146703	1	37	2	56	.1	20	11	324	2.87	41	5	ND	11	89	.2	2	5	43	1.08	.030	21	59	1.08	194	.23	4	2.67	.11	1.14		9	280
R146704	1	26	2	42	.1	14	6	276	1.63	52	5	ND	9	123	.2	2	8	21	2.50	.019	18	27	.48	94	.13	11	1.94	.09	.45		22	510
STANDARD C7/AU-R	18	57	36	128	7.3	68	33	950	3.95	39	18	6	36	49	17.8	16	18	56	.47	.081	35	56	.85	171	.08	32	1.86	.06	.13		11	490

LTR S-2

LTR S-3

Samples beginning 'RE' are duplicate samples.

Gold in soil (ppb)	Gold in rock (ppb)	Resamples	Gold in rock (ppb)
73	R142912	R142946	4102
42	P52297	R142947	189
45	P52298	R142948	410
48	P52299	R142949	51
50	P52300	R142950	240
52	P52301	R142951	37
53	P52302	R142952	45
54	P52303	R142953	8
55	P52304	R142954	129
56	P52305	R142955	139
57	P52306	R142956	359
58	P52307	R142957	45
59	P52308	R142958	5
60	P52309	R142959	27
61	P52310	R142960	67
62	P52311	R142961	564
63	P52312	R142962	4818
64	P52313	R142963	73
65	P52314	R142964	339
66	P52315	R142965	45
67	P52316	R142966	5
68	P52317	R142967	27
69	P52318	R142968	67
70	P52319	R142969	564
71	P52320	R142970	4818
72	P52321	R142971	73
73	P52322	R142972	339
74	P52323	R142973	45
75	P52324	R142974	5
76	P52325	R142975	27
77	P52326	R142976	67
78	P52327	R142977	564



DDH-CL-88-8

From - To	Interval	Assay
5.0-8.0m	3.0m	1.36 gpt
8.0-11.0m	3.0m	1.67 gpt
11.0-14.0m	3.0m	1.06 gpt
14.0-17.0m	3.0m	4.68 gpt
17.0-20.0m	3.0m	1.79 gpt

REVISIONS

NO. DATE BY

1 JAN 16 1992

SCALE 1:10,000

DWG No. 098011

MAP # 514/15 384

REVISIONS

NO. DATE BY

1 JAN 16 1992

SCALE 1:10,000

DWG No. 098011

PROJECT: CLEAR CREEK CONTACT ZONE (NORANDA SAMPLING) SECTION (Noranda Sampling)

DATE: SEPT 1990

DRAWN BY: J.S.

SCALE: 1:10,000

NORANDA EXPLORATION OFFICE: WHITEHORSE



LEGEND

TRENCHES AND ROADS for which ASSESSMENT IS TO BE APPLIED.

TRENCH	LENGTH	WIDTH	DEPTH	CUBIC METRES MOVED
(in metres)				
TR S-1	800	4	1	800
TR S-2	75	4	1	300
TR S-3	90	4	1	360
TR E-1	145	4	2	1160
TR E-2	50	4	2	400
ACCESS ROAD	3000	4	1	12000