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VANCOUVER, B.C.

# Geochemical Report

on The

Westim Mineral Claim

Located in the Clinton MD

at Co-ordinates

$51^{\circ}54'N - 121^{\circ}22'W$

NTS 92P/14W

By

C.E. Gunn

June 1999

GEOLOGICAL SURVEY BRANCH  
MINERAL REPORT

25,984

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## Introduction

The Westim mineral claim comprising 2 Units staked September 14 1976 by C.E. Gunn to cover an area of narrow veins containing, galena, chalcopyrite, sphalerite and gold silver values. Noranda Exploration Co. Ltd. acquired the claims from C.E. Gunn under the terms of an option agreement dated June 1 1978.

During July and August a control grid with 100 m line spacing was established over two square km of the property. Soil samples at 25 m intervals was done on the entire grid, under contract to C.E. and H.A. Gunn. Geological mapping was carried out during August by L.C. Reinertson Geologist, of Noranda (See Assessment Report No. 07256-1978)

## Location and Access

The property is at  $51^{\circ} 54' N$  and  $121^{\circ} 22' W$  on NTS 92 P/14 W. This is 12 km at  $037^{\circ}$  (true), from the Village of Lac La Hache B.C. in the Clinton M.D., and 8 km at  $268^{\circ}$  from the BCFS Mount Timothy lookout tower.

The veins and pits occurring at 1250 m elevation ASL near the top of "Peavine ridge" on the E slope.

Access by all weather road for 10.5 km on the Spout Lake road, then by logging access road for 3 km to center of claim.

## Physiography

The property covers a northerly running ridge, with elevations of 1070 to 1280 m ASL. The area has previously been logged in 1974, 1975. Most of the claim is clearcut, however some mature Douglas Fir and Engelmann Spruce are present. The top soil thin and angular rock appears as soon as you dig into the ground. Overburden being approximately .6 m to 1.5 m. The Airphoto and Map on Pages C D show extent of logging and access roads.

Claim Statistics

Westim Claim is owned by C.E. Gumm, and is located in the Clinton M.D. NTS Map 92 P/14W

<u>Claim Name</u>	<u>Record Number</u>	<u>Units</u>	<u>Record Date</u>
Westim	# 52(9) - Old Tenure #207910 - New Tenure	2	Sept 14 1976
See A	For claim location		

Control Grid

On June 1 1999 drove from Surrey to Williams Lake, rented 1993 three quarter ton Dodge 4X4 and Kowwasaki. 400cc ATV, power saw, Auger, shovel, pick, H'bar etc. Then with one man to help, drove to Westim claim. Road to claim for last 3kms was not maintained, spend first day fixing road, washouts and cutting downed trees, and cutting back growth along road, then setting up camp. Next we located old grid stations (Noranda 1978) From the 1978 grid, in relation to the LCP Then blazed and flagged and compassed, with chain, lines marked as follows on 25m stations.

101N+0+00E to 101N+262E

100N+0+00E to 100N+312E

99N+0+00E to 99N+312E

97N+0+00E to 97N+312E

94N+0+00E to 94N+137E and 94N+00E to 94N+12W

For the 1999 samples we used Old Noranda's 100E as a baseline and called it 0+00E See map E to clarify.

## Geochemical Sampling

30 "Deep" soil samples were taken at stations as marked on grid map. By "Deep" samples, I mean every sample was pick and shovel, then 2" (5.5cm) hand auger was used and a long crowbar, to help get through the rocky soil to try for a 36" (91cm) deep sample, most samples were 20" (50cm) to 30" (76cm) deep. This was time consuming, intensive work in the field on a steep sloping area. (upto 40° slope)

The reason was to try for a deeper soil horizon, nearer to the bed rock veins known to be in the area previously sampled, and to compare results with the 1978 Noranda samples. The samples were taken over the old grid area of Noranda's but between those samples by 12.5m.

Samples were collected in paper sample bags supplied by Acme Analytical Laboratories Ltd of Vancouver BC. Duplicate samples were taken at the same time, for future reference.

Samples were delivered to Acme July 13 1999 for Analysis.

30 Deep samples for, 30 Element ICP + Geochem Au (10gm) Analysis  
30 Deep samples - Soil preparation - drying and screening to obtain - 80 mesh Fraction

Then processed as described on the Assay certificate

## Discussion of Results

The 1999 "Deep" soil sampling results were plotted on a copy of the Noranda 1978 grid map. The results confirm the presence of veins, suspected and known in the eastern area of the claim.

Noranda's 1978 Report recommended more work in this area however it was not completed.

We feel more Deep sampling, possible with one of the new type power mobile post hole type augers, adapted for rocky ground could reach bedrock in most areas of interest, as overburden is quite shallow

## Resume of Technical and Field Experience of C.E. Gunn

Full time prospector and property management, From 1964 to present.

Gunn Mines Ltd (NPL) Staked claims optioned To Gunn Mines

- ① Property Manager - Working with R.W. Cannon of Canex Exploration, Grid Layout, soil sampling, Magnetometer Survey, IPOL.
- ② 1968-1969 Exeter Mines Ltd (NPL) Property Manager did Soil sampling and Grid preparation, with crew, under Supervision T.R. Tough PEng (in training) an Associate of E.P. Sheperd PEng and Assoc. Ltd
- ③ 1970-1971 Exeter Mines Ltd (NPL) Big Timothy Mtn. property Property Manager, worked with D.G. Mark Geophysicist with Geotronics Surveys Ltd., Doing Grid, soil sampling and VLF-EM Survey.
- ④ 1972 Exeter Mines Ltd (NPL) "MAD Group" claims McKeese Lake. Property Manager, Grid preparation and soil samples with D.G. Mark Geophysicist, T.R. Tough P.Eng.
- ⑤ 1978 Westim Property of C.E. and H.A. Gunn, optioned to Noranda Exploration Co. Ltd. C.E. and H.A. Gunn contracted 22.8 Km of Grid lines and Soil sampled at 25m intervals, A total of 855 samples under the Supervision of R.C. Heim PdD PEng, L.C. Reinertson Geologist, G.E. Dirom P.Eng. of Noranda Exploration Co. Ltd.
- ⑥ 1987 to 1989 Worked on Armada Gold and Minerals Ltd (NPL) property at The Forks of Horsefly River and Mackay River Cariboo M.D. Property Manager, - Supervised Grid Location then took 935 soil samples, 33 stream sediments sampler on 29.5 Km of lines. Under Supervision of A.D. Drummond PhD, PEng. and D.A. Howard MSc, PEng of D.D.H Geomanagement

Dated at Surrey B.C. this 18 day of Aug 1999

*C. Gunn*

Statement of Cost

Project Westim claim  
Type of Report Line preparation an Geochemical "Deep" Samples  
and access.

1. Wages

No. of Days 5

Rate per day 1 man 240.00  
1 man 160.00

Date June 2/99 to June 6/99

Total Wages 5X400.00 =

2,000.00

2. Food and Accomodation

No of Days 5 2 men

Rate per day \$35.00 X 2 X 5 =

350.00

3. Transportation

(a) Vancouver to Wm lake and return

No. of days 2 car rental @ \$50.00

100.00

200km Free 964km return - 200 = 764 @ .18¢/km

137.52

(b) On Property 5 days

4X4 heavy duty HX4 pickup 3/4 ton 90.00 X 5

450.00

(c) On Property 5 days

Kawasaki 400cc ATV @ 300.00 wk

300.00

(d) On Property 5 days

Power Saw 2 days operating @ \$30.00

60.00

3 days stand by @ \$10.00

30.00

4. Analysis

Acme Analytical Laboratories Ltd Van BC

30 samples For 30 element ICP + Geochem Au @ \$1250

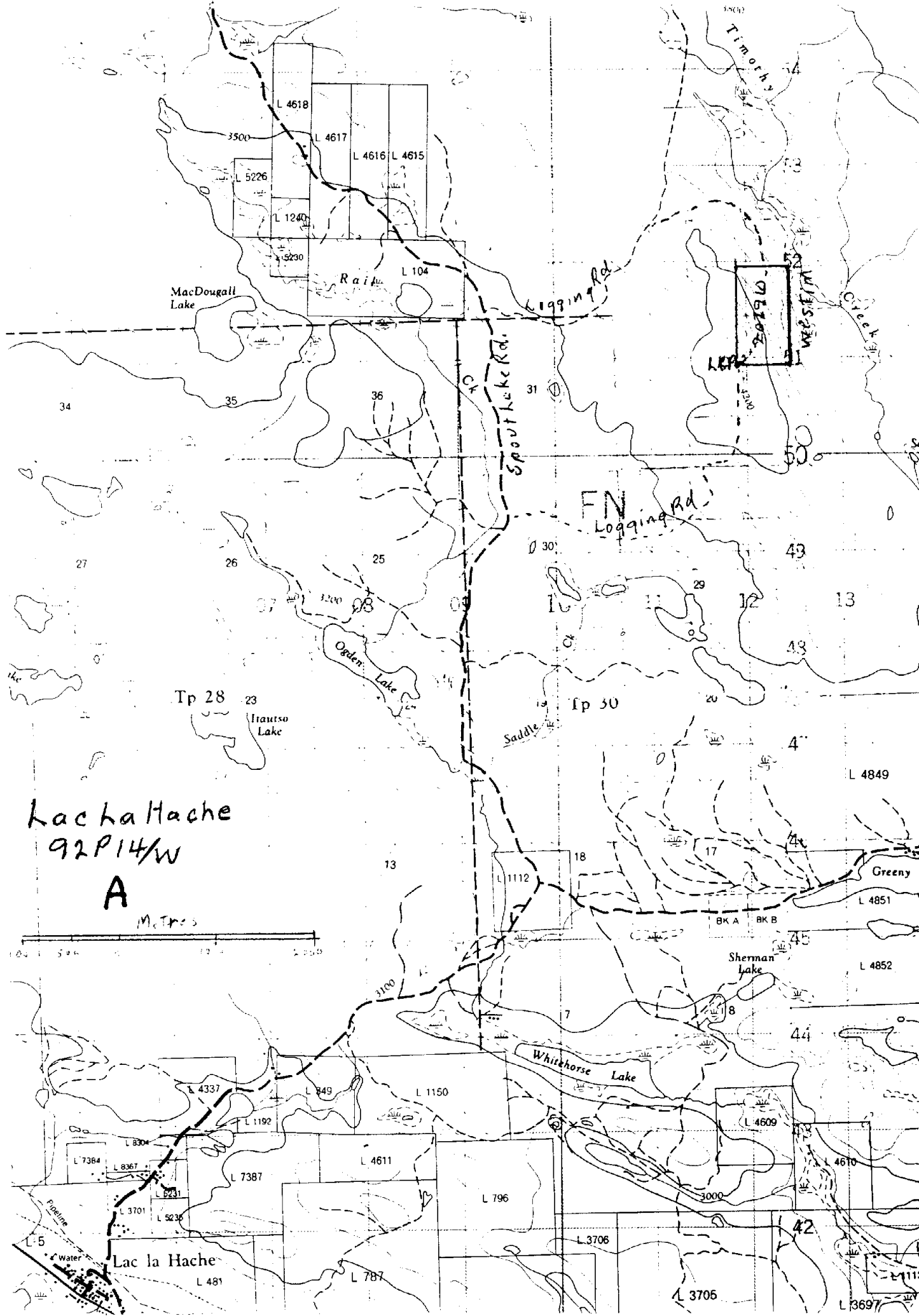
30 samples - Soil sample preparation @ 135 444.59

5. Preparation of report supplies, zerox, etc

50.00

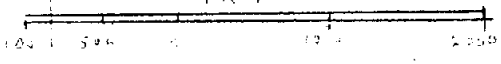
\$ 3,922.11





Kachalache  
92P14/W  
A

M. Tros



309368

353253

RED 2

55X4W

55X4W

65X3W

1 353256

RED 3

53

VITAL 16 304260	VITAL 14 304258
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VITAL 15 304259	VITAL 13 304257	VITAL 11 304255	VITAL 9 304253
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VITAL 58 FR.

330659

VITAL 57  
320575

VITAL 8  
304252

VITAL 6  
304250

VITAL 5  
304249

Soil Sample Area

WESTIM
207910
±52'
ZIXIE
33013

Timothy Creek

Logging Road

Spoat Lake Rd

Logging Rd

95N

8L

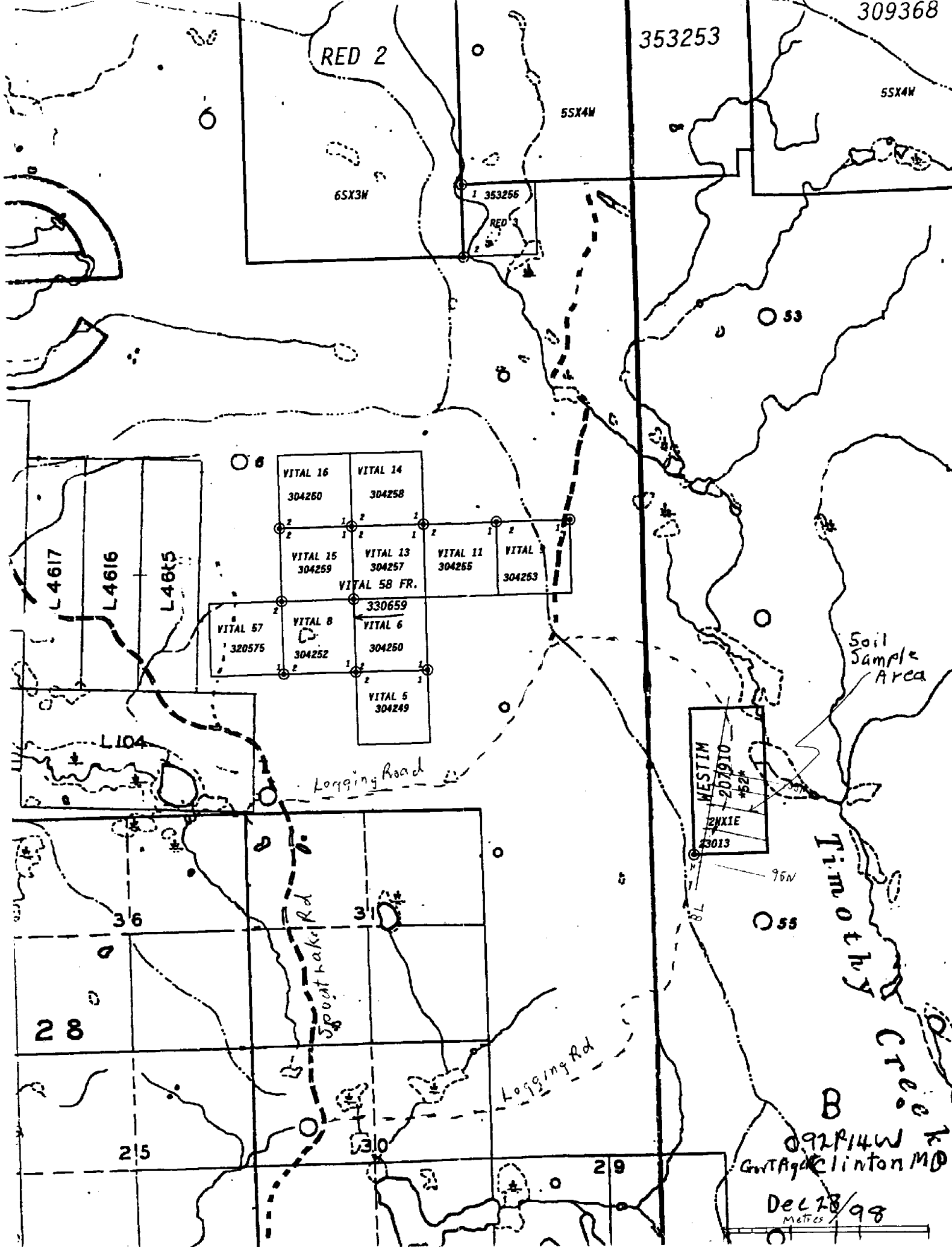
55

B

092P14W  
Gort Ag Clinton MD

Dec 28/98

METRES



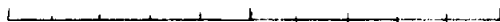


BC7318 No 060

328

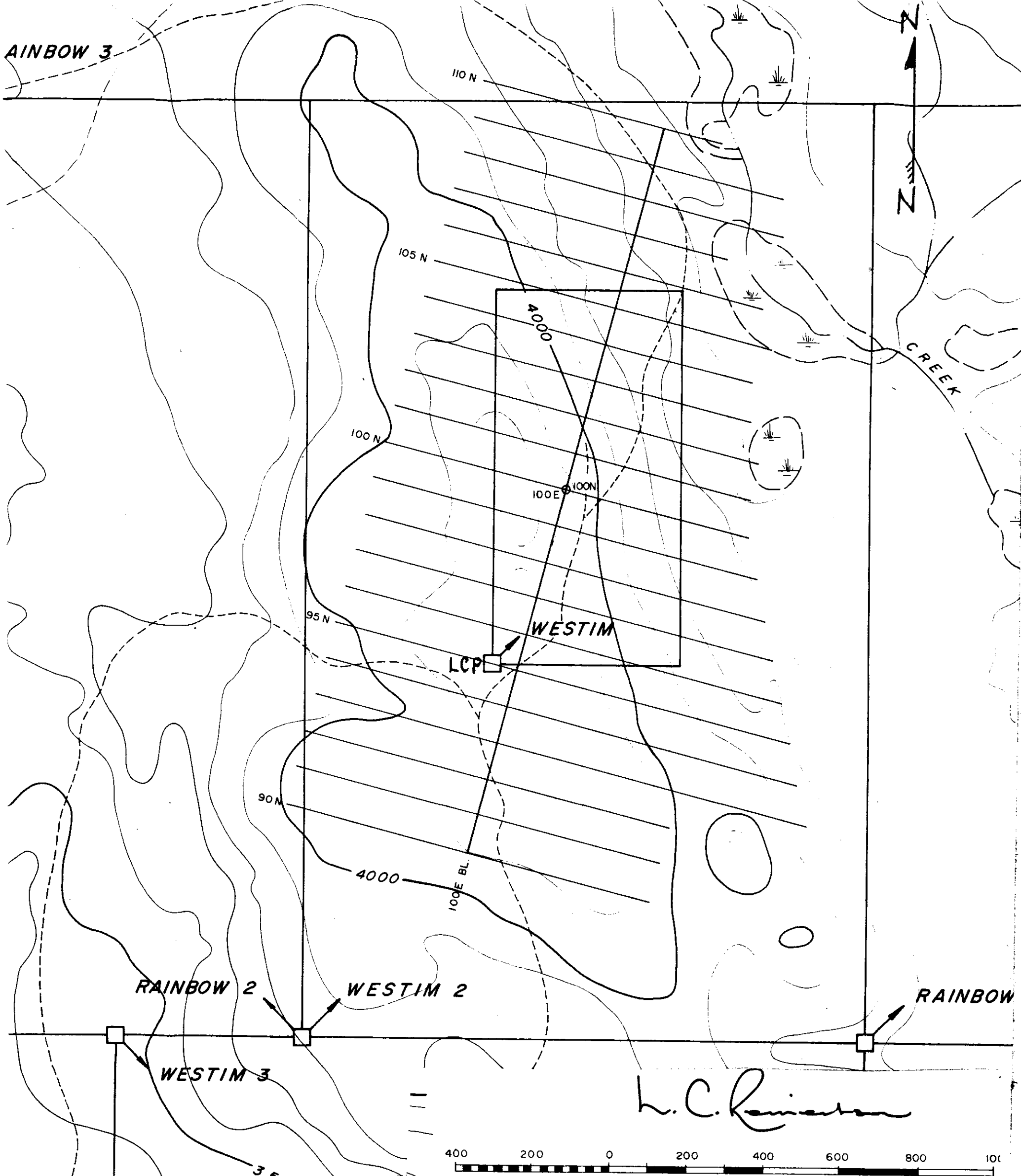
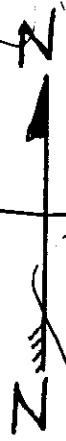


Westimber

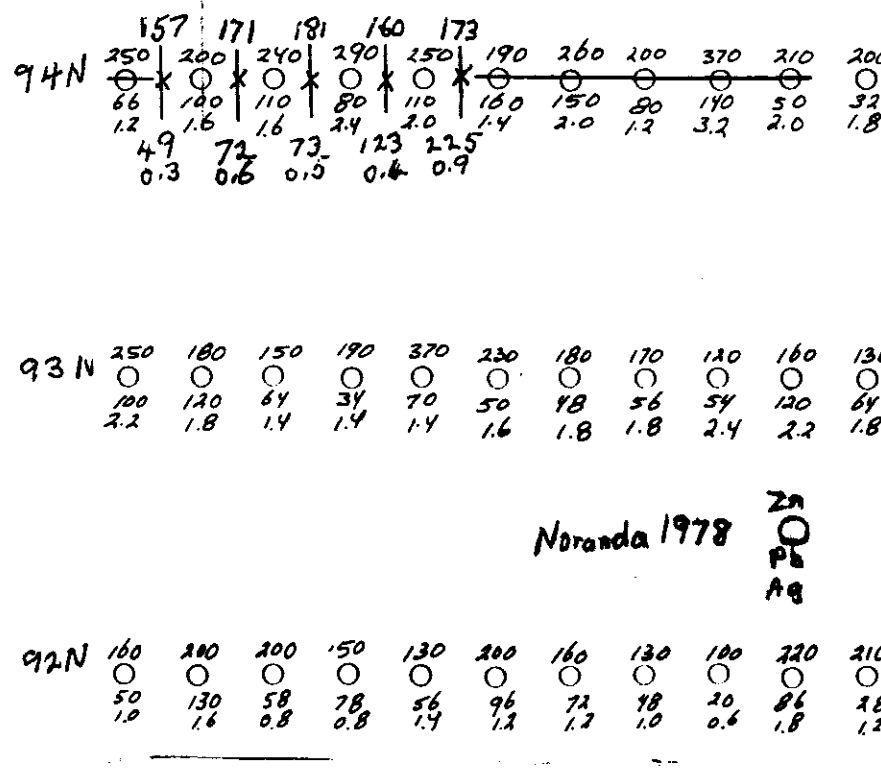
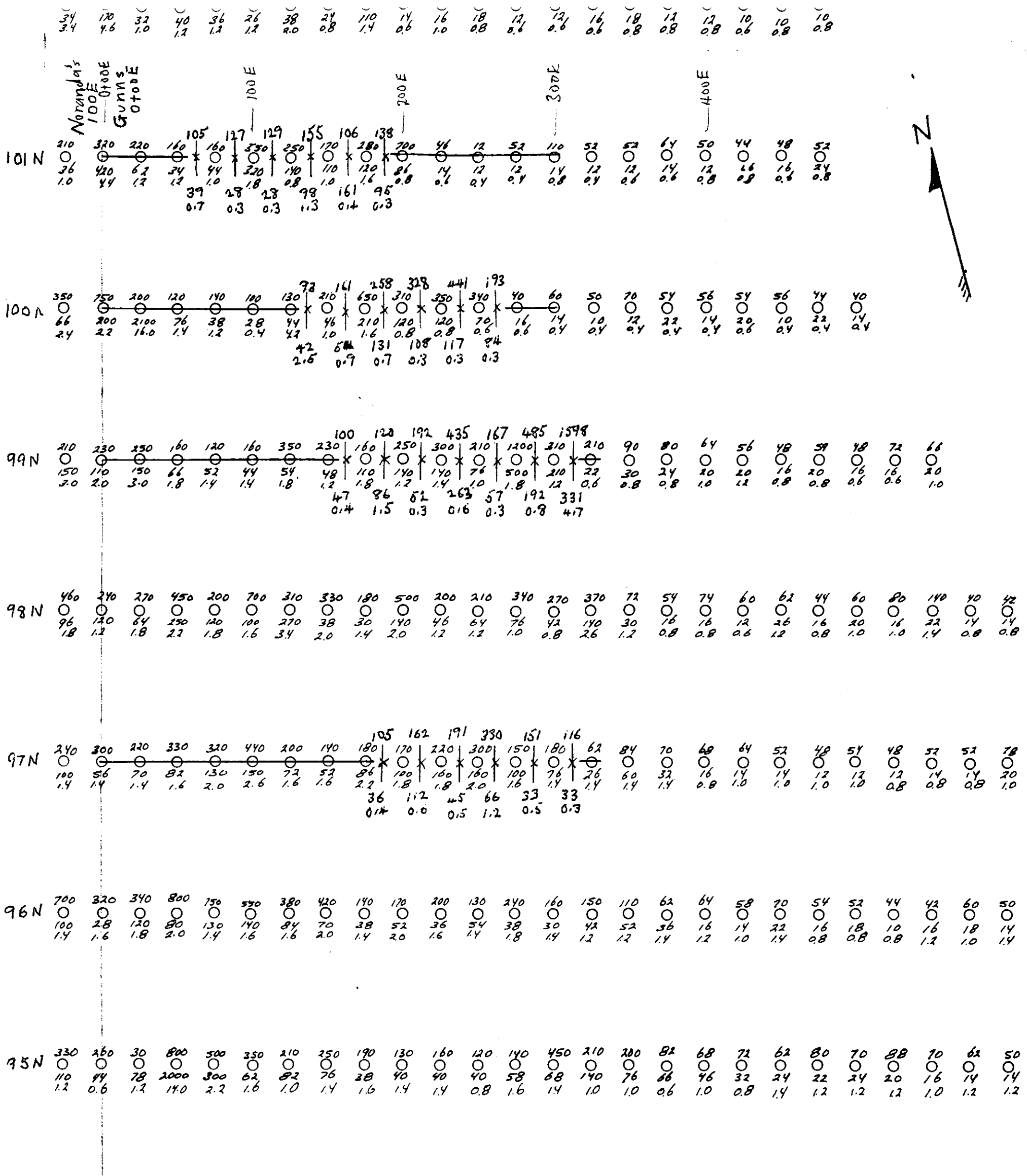


C

RAINBOW 3



REVISED	TIMOTHY CREEK (GUNN OPTION)	
NOV. 1978		
D	CLAIM & GRID LOCATION MAP	
PROJ. No. 62	SURVEY BY: L. REINERTSON	DATE: AUGUST 1978
N.T.S. 92P/14W	DRAWN BY: JAN VAN VOORST	SCALE: 1:10,000
DWG. No. 2	<b>NORANDA EXPLORATION</b>	
	OFFICE: VANCOUVER	



H.C. Reinertson

REVISED  
 DEC. 1978  
 Note 1999 cGunn  
 Sample marked  
 Zn  
 Pb  
 Ag  
 E

PROJ. No. 62  
 N.T.S. 92P/14W  
 DWG. No. 4

TIMOTHY CREEK (GUNN OPTION)  
 GEOCHEMICAL SURVEY  
 Zn, Pb, Ag IN P.P.M.

SURVEY BY: L.C.R. DATE: SEPT. 1978  
 DRAWN BY: JAN VAN VOORST SCALE: 1:2500

NORANDA EXPLORATION



GEOCHEMICAL ANALYSIS CERTIFICATE

Gunn, Clifford E. File # 9902191

43 - 15875 - 20th Ave, Surrey BC V4A 2B1 Submitted by: Clifford E. Gunn

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	
101N+62E	1	31	39	105	.7	19	9	609	3.51	22	<8	<2	3	29	<.2	4	6	76	.38	.079	12	35	.48	156	.10	<3	1.46	.02	.10	<2	34
101N+87E	1	12	28	127	.3	12	6	460	2.36	8	<8	<2	2	31	<.2	<3	<3	48	.41	.131	11	21	.31	294	.08	<3	1.51	.03	.13	<2	1
101N+112E	<1	33	36	129	<.3	27	15	392	4.35	18	<8	<2	3	43	<.2	4	3	121	.64	.098	14	59	1.75	94	.11	<3	2.23	.02	.09	2	2
101N+137E	<1	67	98	155	1.3	28	16	684	4.16	22	<8	<2	3	45	<.2	5	3	106	.69	.085	28	56	1.43	126	.12	<3	2.20	.03	.14	<2	10
101N+162E	4	11	161	106	.4	4	3	190	2.02	13	<8	<2	13	31	.2	4	<3	28	.30	.069	27	14	.15	80	.04	<3	.69	.02	.12	<2	1
101N+187E	2	16	95	138	<.3	13	6	410	2.60	11	<8	<2	4	49	.3	<3	<3	56	.39	.056	17	29	.37	128	.10	<3	1.17	.03	.11	<2	1
100N+137E	<1	104	42	93	2.5	31	14	948	3.92	31	<8	<2	4	53	<.2	4	5	78	.78	.111	48	40	.97	552	.12	<3	2.27	.02	.16	<2	29
100N+162E	2	35	54	161	.9	16	8	466	3.61	28	<8	<2	3	29	<.2	4	4	76	.33	.134	17	38	.48	149	.12	<3	1.31	.03	.13	<2	3
100N+187E	1	20	131	258	.7	12	6	419	2.85	12	<8	<2	3	29	.6	5	<3	57	.36	.048	19	32	.39	109	.07	<3	1.13	.02	.13	<2	12
100N+212E	1	23	108	328	.3	19	8	528	3.11	10	<8	<2	4	42	.4	<3	<3	62	.48	.103	21	41	.58	305	.09	<3	1.62	.02	.11	<2	9
100N+237E	1	14	117	441	<.3	17	6	326	2.55	6	<8	<2	2	32	1.2	3	<3	54	.37	.167	14	36	.33	270	.09	<3	1.33	.02	.11	<2	2
100N+262E	1	12	84	193	<.3	14	6	250	2.31	17	<8	<2	2	25	.7	3	3	56	.23	.056	8	31	.28	90	.11	<3	.95	.02	.07	<2	3
RE 100N+262E	1	12	80	189	<.3	14	6	246	2.30	16	<8	<2	2	24	.5	3	4	56	.23	.055	8	30	.28	90	.11	<3	.95	.02	.08	<2	5
99N+162E	1	30	47	100	.4	14	7	342	3.21	21	<8	<2	4	27	<.2	6	5	67	.39	.060	18	32	.47	155	.11	<3	1.00	.02	.10	<2	7
99N+187E	1	37	86	120	1.5	16	8	394	3.32	22	<8	<2	4	34	<.2	6	6	75	.43	.073	22	38	.52	120	.10	<3	1.05	.02	.12	<2	4
99N+212E	2	27	52	192	.3	16	8	401	3.50	19	<8	<2	2	36	.5	7	4	76	.32	.103	14	40	.55	110	.09	<3	1.12	.02	.10	<2	9
99N+237E	2	44	263	435	.6	16	7	556	3.59	21	<8	<2	3	40	.7	12	<3	79	.44	.114	18	44	.47	116	.10	<3	1.13	.03	.10	<2	54
99N+262E	1	26	57	167	<.3	18	8	467	3.01	6	<8	<2	2	35	.6	4	4	68	.42	.059	18	38	.49	217	.11	<3	1.21	.02	.09	<2	16
99N+287E	1	29	192	485	.8	22	7	323	3.25	11	<8	<2	3	37	1.7	6	5	80	.43	.108	16	49	.52	154	.13	<3	1.13	.03	.09	<2	21
99N+312E	2	165	331	1598	4.7	30	13	1903	4.61	18	<8	<2	5	98	17.3	12	<3	102	.86	.138	39	69	1.21	230	.04	<3	2.41	.02	.17	<2	18
97N+187E	1	17	36	105	.4	14	7	370	2.90	12	<8	<2	2	33	<.2	3	<3	57	.42	.062	20	26	.58	338	.06	<3	1.34	.02	.13	<2	4
97N+212E	2	33	112	162	.6	19	9	1212	3.51	30	<8	<2	3	34	<.2	5	4	71	.38	.080	27	36	.52	184	.11	<3	1.19	.02	.12	<2	4
97N+237E	<1	10	45	191	.5	12	5	290	2.34	2	<8	<2	2	25	.6	<3	3	51	.32	.064	12	30	.33	195	.09	<3	1.04	.02	.12	<2	2
97N+262E	<1	14	66	330	1.2	17	6	388	2.55	6	<8	<2	3	32	1.1	<3	4	53	.36	.100	14	34	.38	340	.10	<3	1.29	.02	.12	<2	5
97N+287E	<1	8	33	151	.5	10	5	299	2.12	<2	<8	<2	2	29	.6	<3	<3	51	.30	.130	10	26	.27	301	.08	<3	1.04	.02	.09	<2	1
97N+312E	1	11	33	116	.3	19	6	259	2.79	3	<8	<2	3	28	<.2	<3	6	67	.28	.135	11	38	.38	220	.12	<3	1.23	.03	.07	<2	5
94N+12W	1	15	49	157	<.3	10	8	2296	2.47	8	<8	<2	<2	35	.2	<3	4	51	.52	.244	15	17	.28	603	.05	<3	1.55	.02	.08	<2	8
94N+12E	1	22	72	171	.6	14	8	581	2.89	9	<8	<2	2	20	.5	4	4	63	.29	.057	11	30	.41	140	.08	<3	1.11	.02	.11	<2	2
94N+37E	1	29	73	181	.5	16	9	529	3.40	20	<8	<2	2	24	<.2	4	5	69	.33	.083	14	34	.55	195	.09	<3	1.27	.02	.10	<2	3
94N+62E	8	39	123	160	.4	9	11	639	4.58	64	<8	<2	2	44	<.2	8	<3	55	.81	.113	34	19	.36	314	.02	<3	1.37	.01	.14	<2	4
94N+87E	3	70	225	173	.9	15	9	532	3.54	43	<8	<2	2	31	<.2	9	3	69	.48	.098	20	29	.52	132	.06	<3	1.13	.01	.08	<2	24
STANDARD C3/AU-S	26	61	34	165	5.5	37	11	781	3.24	56	19	<2	19	28	23.5	17	25	82	.55	.089	19	170	.63	146	.09	19	1.76	.04	.15	20	54
STANDARD G-2	2	3	6	42	<.3	7	3	529	1.89	<2	<8	<2	4	93	<.2	<3	3	40	.68	.092	8	75	.61	257	.13	<3	1.18	.18	.52	3	<1

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 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 MASSIVE SULFIDE AND LIMITED FOR NA K AND AL.  
- SAMPLE TYPE: SOIL AU\* - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. (10 gm)  
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 13 1999 DATE REPORT MAILED: *July 20/99* SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

F