

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

85-754-14570

14,570

GEOPHYSICAL ASSESSMENT REPORT

ON THE

10/86

BIG RANGE NORTH, BIG RANGE SOUTH

AND

TIMBERLINE GROUPS

NEW WESTMINSTER MINING DIVISION

LATITUDE: 49°19'N

LONGITUDE: 121°9'W

NTS 92H/6E

FOR

FILMED

CAARA VENTURES INC.

**600-890 WEST PENDER STREET
VANCOUVER, BRITISH COLUMBIA**

BY

10/86

P.G. CURTIS, ACSM, DMT

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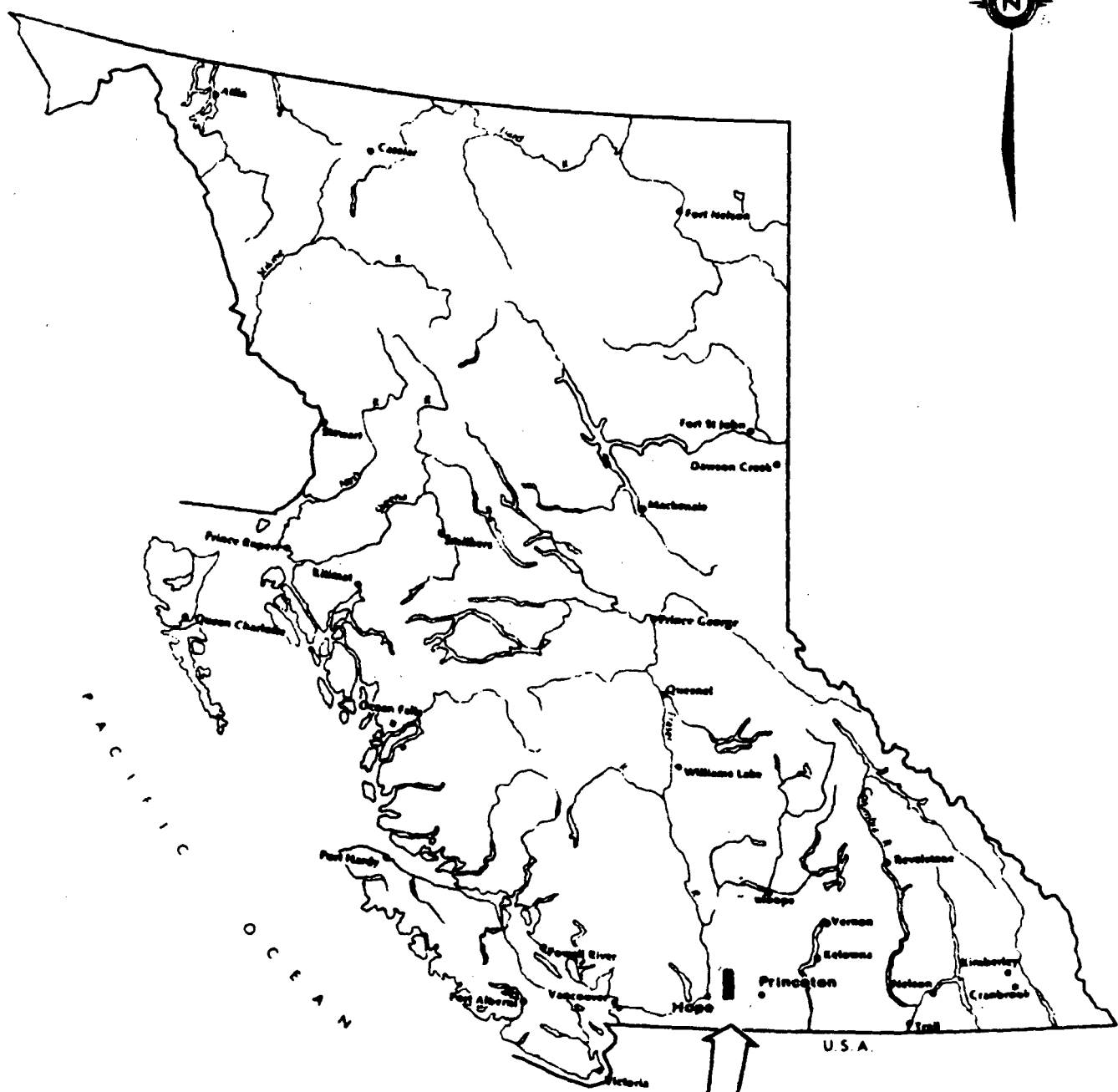
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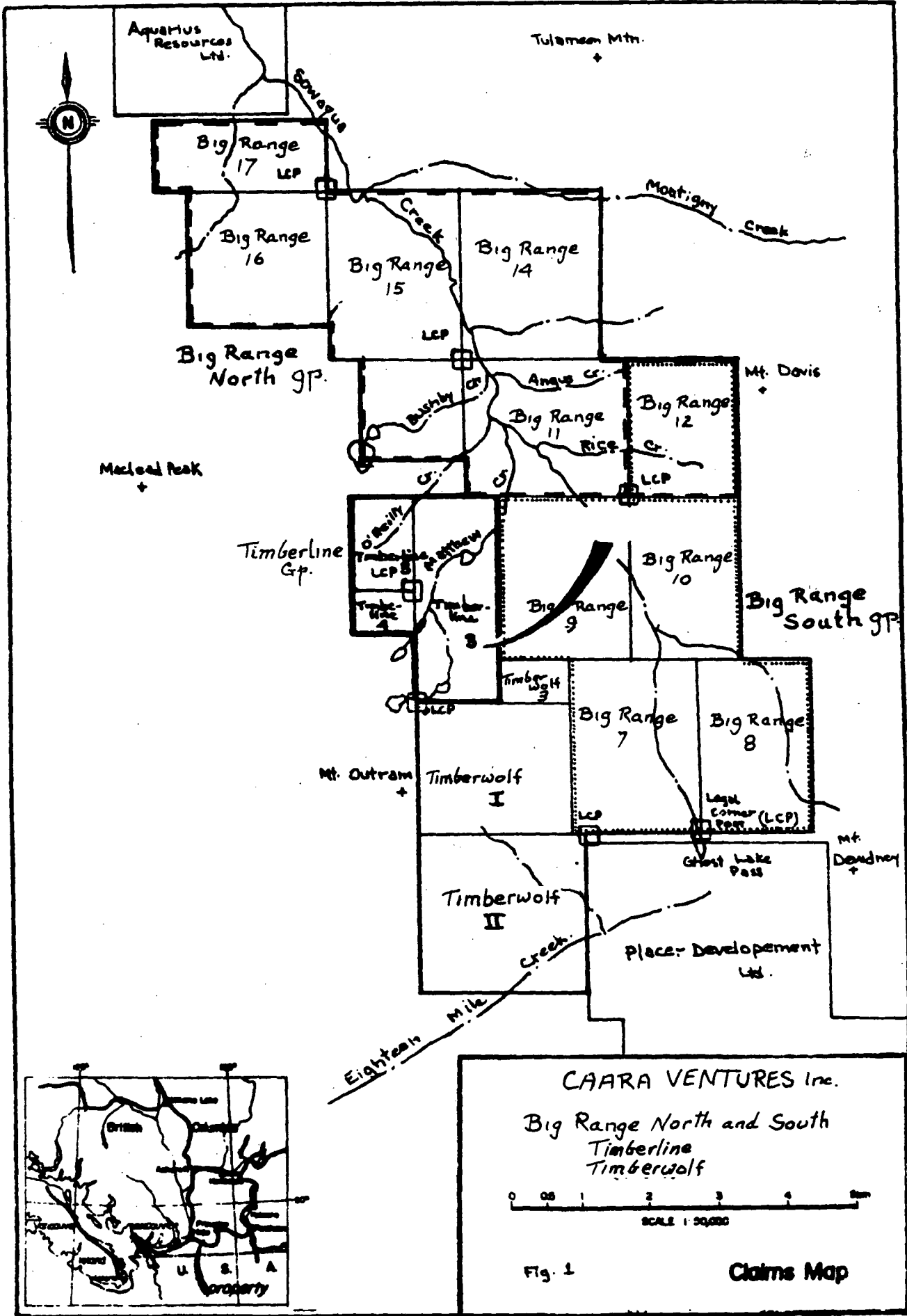


CAARA VETURES INC.
Property Location

Figure 2:

TIMBERLINE GROUP

- Location map



CAARA VENTURES Inc.
 Big Range North and South
 Timberline
 Timberwolf

0 0.5 1 2 3 4 5 Miles
 SCALE 1:50,000

Fig. 1 Claims Map

SUMMARY

In 1985 a reconnaissance survey was carried out using a proton magnetometer and a VLF-EM receiver. The purpose was to determine the suitability of either, or both disciplines, to outline the major fault zone and the adjacent Serpentine Belt. Both methods appear to be able to outline the zone, though the wide line spacing makes more detailed interpretation extremely difficult. Subtle magnetic anomalies cannot be traced with certainty as base station checks could not be made with sufficient frequency to accurately determine the diurnal variation.

Over a 30-day program the following work was completed:

- 1.⁹~~4~~ km of line was cut
- 15.4 km of magnetometer survey traverse lines
- 15.4 km VLF-EM survey traverse lines,
- Reconnaissance geological mapping for a total cost of \$20540, including mobilization and demobilization.

LOCATION AND ACCESS

The Big Range Group is located along the upper reaches of the Sawaqua Creek Valley and its tributaries, and encompasses about 16 square miles (41 sq. km). The property is located some 12 miles (19 km) east of the town of Hope, B.C. and Hope, in turn, is only 90 miles (144 km) east of the city of Vancouver. Hope is a major service center for satellite communities along the northern portion of the Fraser Valley and Canyon. Caroline Gold Mines also draws its work force from the area. Presently, the property can only be reached by helicopter, some 20 minutes flying time from Hope. A logging road follows the northern part of Sawaqua Creek and extends into the north boundary of the claims. Unfortunately, the road is not passable, but logging companies have proposed to rebuild and extend the road to the headwaters of Sawaqua Creek which would greatly facilitate access throughout much of the Big Range Group.

HISTORY

The Big Range Group was located in April 1984, shortly after O.I.C. #994 was rescinded.

The Big Range Group is on the Hozameen Fault which extends from Boston Bar, B.C. to northern Washington State. Past and present gold producers occur along the fault zone, both north and south of the Big Range Group. The Big Range Group covers the area where, in the 1920's the Master Ace claims existed.

1985 WORK PROGRAM

A camp was set up at the junction of Sawaqua Creek and Rice Creek from which a baseline was cut north and south. Traverse lines were run east and west from this control line until either the known rock formations had been crossed, or until the terrain became too difficult to maintain a reasonable line.

On the traverses, readings were taken from a Sabre Model 27 VLF-EM receiver, and a geometrics Model G826 Proton Magnetometer. Both instruments were checked into a base station on the north-south cut line at the start and finish of each traverse; however, the time taken to complete some of the traverses was greater than desirable and as a result the more subtle anomalies may be unreliable.

Traverse lines were at intervals of 200 meters with readings taken every 25 meters. The line spacing is too great for good contouring, but was close enough to determine the suitability, or otherwise, of the two disciplines to outline the major geological structures.

The VLF-EM transmission received was from Seattle, Washington on 18.6 KHz. The dip angle and the field strength were measured.

During the magnetic survey, the sensor was kept in the backpack position and a minimum of two readings taken at each station to reduce risk of instrument or human error.

A few rock sample were collected during the course of the survey.

VLF-EM

The signal from Seattle is so strong that setting the gain control cannot be done with sufficient accuracy; also, the gain control can easily be altered accidentally during a traverse, and accurate re-setting was not possible.

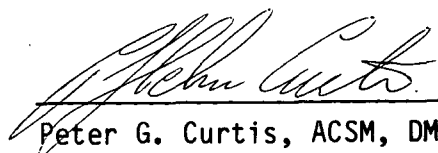
Field strength is significantly increased over the Rice Creek monzonite with the western contact probably indicated by a sharp drop in field strength, and a strong tilt anomaly.

The Hozameen Fault zone, and the associated Serpentine Belt are not

indicated in any significant way. The serpentine is shown, however, by a pronounced magnetic low.

CONCLUSIONS

A combination of VLF-EM and magnetometer surveys can distinguish the major geological features. However, a closer line spacing is required for good contouring and to affirm the cross faulting which appears to be indicated.


Peter G. Curtis, ACSM, DMT

APPENDIX 'A'
VLF-EM READINGS

Appendix A

Line	Stn.	F.S.	Tilt	Fraser	Filter
94+00S	6+50E	90	-6	-10	+2
	6+75	100	-4	-14	+10
	7+00E	90	-10	-20	-2
	7+25	95	-10	-12	-16
	7+50	100	-2	-4	-12
	7+75	100+	-2	0	-8
	8+00E	100+	+2	+4	-4
	8+25	100+	+2	+4	-6
	8+50	100+	+2	+10	-18
	8+75	100+	+8	+22	-20
	9+00E	100+	+14	+30	+4
	9+25	100+	+16	+18	+32
	9+50	100+	+2	-2	+32
	9+75	100+	-4	-14	+16
	10+00E	100+	-10	-18	-20
	10+25	100+	-8	+6	-36
	10+50	100+	+14	+18	-2
	10+75	100+	+4	+8	+4
	11+00E	100+	+4	+14	-10
	11+25	80	+10	+18	-10
	11+50	60	+6	+24	-6
	11+75	65	+16	+24	
	12+00E	70	+8		

Appendix A

Line	Stn.	F.S.	Light	Fraser Filter	
94+00S	0+50W	70	0	-4	+6
	0+25	75	-4	-10	+10
	0+00	60	-6	-14	+4
	0+25E	50	-8	-14	-16
	0+50	45	-6	-8	-10
	0+75	55	-2	-4	-4
	1+00E	55	-2	-4	0
	1+25	50	-2	-4	0
	1+50	60	-2	-4	-2
	1+75	50	-2	-2	-2
	2+00E	55	0	-2	+2
	2+25	50	-2	-4	+2
	2+50	55	-2	-4	+4
	2+75	60	-2	-8	+4
	3+00E	55	-6	-8	-2
	3+25	65	-2	-6	-2
	3+50	55	-4	-6	-2
	3+75	60	-2	-4	0
	4+00E	60	-2	-6	-10
	4+25	55	-4	+6	-24
	4+50	55	+10	+18	-8
	4+75	60	+8	+14	0
	5+00E	55	+6	+18	-8
	5+25	55	+12	+22	-10
	5+50	100+	+10	+28	-12
	5+75	100+	+18	+34	+22
	6+00E	90	<u>+16</u>	+6	+52
	6+25	30	-10	-16	+16

Line	Stn.	F.S.	Tilt	Fraser Filter	
94+00S	8+00W	65	-16	-16	-20
	7+75	60	0	-4	-8
	7+50	65	-4	-8	0
	7+25	55	-4	-4	-20
	7+00W	70	0	+12	-16
	6+75	70	+12	+12	+24
	6+50	75	0	-12	+42
	6+25	70	-12	-30	+14
	6+00W	75	-18	-28	-8
	5+75	60	-10	-22	+4
	5+50	75	-12	-32	+20
	5+25	65	-20	-42	+8
	5+00W	65	-22	-40	-12
	4+75	60	-18	-30	-34
	4+50	60	-12	-6	-26
	4+25	65	+6	-4	-8
	4+00W	55	+2	+2	-4
	3+75	60	+4	0	+8
	3+50	55	+4	-6	+18
	3+25	50	-10	-18	+6
	3+00W	80	-8	-12	-12
	2+75	70	-4	-6	-2
	2+50	75	-2	-6	-2
	2+25	70	-4	-4	-2
	2+00W	70	-4	-4	-2
	1+75	55	0	-2	-2
	1+50	70	-2	-2	-2
	1+25	65	0	0	+2
	1+00W	60	0	-4	+4
	0+75	70	-4		

Appendix A

Line	Stn.	F.S.	Tilt	Fraser Filter	
94+00S	15+00W	100+	-16		
	14+75	100+	-8	-24	
	14+50	100+	-8	-16	+6
	14+25	95	-12	-30	+8
	14+00	75	-12	-24	-10
	13+75	80	-8	-20	+6
	13+50	75	-22	-30	+18
	13+25	80	-16	-38	0
	13+00W	65	-14	-30	-14
	12+75	65	-10	-24	-12
	12+50	75	-8	-18	-6
	12+25	60	-10	-18	+10
	12+00W	65	-18	-28	+20
	11+75	55	-20	-38	+10
	11+50	60	-18	-38	+8
	11+25	55	-28	-46	+12
	11+00W	60	-16	-50	-8
	10+75	60	-16	-38	-20
	10+50	60	-14	-30	-20
	10+25	35	-4	-18	-20
	10+00W	60	-6	-10	-4
	9+75	55	-6	-12	0
	9+50	55	-4	-10	-6
	9+25	60	-2	-6	-4
	9+00W	60	-4	-6	+4
	8+75	65	-6	-10	+8
	8+50	60	-8	-14	+6
	8+25	70	-8	-16	-10
				-24	0

Appendix A

Line	Stn.	F.S.	Tilt	Fraser Filter	
96+00S	8+25W	35	-8		
				-12	
	8+00	37	-4	-4	-16
	7+75	38	0	+4	-14
	7+50	41	+4	+10	-8
	7+25	44	+6	+12	+9
	7+00W	44	+6	+1	+15
	6+75	41	-5	-3	-3
	6+50	41	+2	+4	+3
	6+25	41	+2	0	+12
	6+00W	49	-2	-18	+36
	5-75	51	-16	-36	+7
	5+50	42	-20	-35	-11
	5-25	38	-15	-25	-22
	5+00W	55	-10	-13	-24
	4+75	38	-3	-1	-17
	4+50	44	+2	+4	+1
	4+25	44	+2	-2	+13
	4+00W	47	-4	-9	+7
	3+75	44	-5	-3	-3
	3+50	44	-4	-6	-7
	3+25	45	-2	-2	-7
	3+00W	44	0	+1	-2
	2+75	46	+1	0	+7
	2+50	51	-1	-3	+15
	2+25	55	-5	-15	+18
	2+00W	49	-10	-24	+5
	1+75	44	-14	-27	-17
	1+50	44	-6	-7	-23

Appendix A

Line	Stn	F.S.	Tilt	Fraser Filter	
96+00S	1+25	44	-1		
				+3	-9
	1+00W	51	+4		
				+2	+11
	0+75	57	-2		
			-8	+13	
	0+50	57	-6		
				-11	-1
	0+25	57	-5		
				-7	-9
96+00S	0+00	55	-2		
				-2	+7
	0+75	55	0		
				-14	+20
	1+00E	64	-14		
				-22	0
	1+25	59	-8		
				-14	-10
	1+50	51	-6		
				-12	-8
	1+75	51	-6		
				-6	-14
	2+00E	42	0		
				+2	-2
	2+25	47	+2		
				+4	+2
	2+50	55	+2		
				0	+6
	2+75	47	-2		
				-2	0
	3+00E	59	0		
				0	-2
	3+25	64	0		
				0	0
	3+50	51	0		
				0	+8
	3+75	55	0		
				-8	+8
	4+00E	59	-8		
				-8	-8
	4+25	55	0		
				-2	-4
4+50	59	-2			
			-4	+2	
4+75	51	-2			
			-4	+2	
5+00E	64	-2			
			-6	+2	
5+25	59	-4			
			-6	-4	
5+50	55	-2			
			-2	-6	
5+75	59	0			
			0	+2	
6+00E	42	0			
			-4	+6	
6+25	59	-4			
			-6	-12	

Appendix A

Line	Stn.	F.S.	Tilt	Fraser Filter	
96+00S	6+50	51	-2	+8	-26
	6+75	55	+10	+20	-8
	7+00E	55	+10	+16	+8
	7+25	55	+6	+12	0
	7+50	51	+6	+16	+3
	7+75	51	+10	+9	+17
	8+00E	68	-1	-1	+11
	8+25	59	0	-2	-13
	8+50	42	-2	+12	-38
	8+75	38	+14	+36	-34
	9+00E	38	+22	+46	-2
	9+25	42	+24	+38	+22
	9+50	51	+14	+24	+8
	9+75	42	+10	+30	-14
	10+00E	47	+20	+36	-10
	10+25	51	+18	+40	-2
	10+50	64	+22	+40	+8
	10+75	76	+18	+34	+6
	11+00E	72	+16	+34	+8
	11+25	75	+18	+28	+8
	11+50	59	+10	+28	-1
	11+75	51	+10	+38	
	12+00E	51	+20		

Appendix A

File	Strn.	F.S.	Tilt	Fraser Filter	
98+00S	7+50W	46	+4	+12	
	7+25	46	+8	+12	+10
	7+00W	56	+4	+2	+17
	6+75	52	-2	-5	+10
	6+50	52	-3	-8	+8
	6+25	52	-5		
	6+00W	44	-8	-13	+4
	5+75	46	-4	-12	-5
	5+50	46	-4	-8	+8
	5+25	46	0	-4	+11
	5+00W	46	+3	+3	-3
	4+75	42	-10	-7	-11
	4+50	40	+2	-8	+3
	4+25	44	-6	-4	+2
	4+00W	42	0	-6	-14
	3+75	42	+10	+10	-26
	3+50	46	+10	+20	-12
	3+25	46	+12	+22	-2
	3+00W	48	+10	+22	+4
	2+75	52	+8	+18	+11
	2+50	52	+3	+11	+15
	2+25	56	0	+3	+11
	2+00W	54	0	0	+3
	1+75	52	0	0	0
	1+50	54	0	0	0
	1+25	54	0	0	+4
	1+00W	56	0	-1	+8
	0+75	56	-1	-3	-1
	0+50	50	+1	-3	-3

Appendix A

Line	Stn.	P.S.	Tilt	Fraser	Filter
				-5	+4
98+00S	0+25W	59	-6	-7	-2
	0+00	60	-1	-3	-3
	0+25E	60	-2	-4	+5
	0+50	56	-2	-8	+12
	0+75	60	-6	-16	+12
	1+00E	58	-10	-20	
	1+25	56	-10		
<u>100+00S</u>	8+75W	38	-24	-32	
	8+50	42	-8	-16	-6
	8+25	47	-8	-26	+14
	8+00W	47	-18	-30	+2
	7+75	51	-12	-28	+2
	7+50	55	-16	-32	-4
	7+25	55	-16	-24	-20
	7+00W	51	-8	-12	-16
	6+75	51	-4	-8	-4
	6+50	47	-4	-8	0
	6+25	51	-4	-8	0
	6+00W	47	-1	-8	+4
	5+75	47	-4	-12	-5
	5+50	51	-8	-8	-15
	5+25	47	+5	+1	+7
	5+00W	55	-4	-10	+1
	4+75	55	-6	0	-20
	4+50	51	+6	+10	-16
	4+25	51	+4	+16	-10
	4+00W	55	+12	+20	-2
	3+75	55	+6	+18	+6
	3+50	55	+10	+14	+6

Appendix A

Line	Stn.	F.S.	Tilt	Fraser Filter	
100+00	3+25W	51	+4	+12	-4
	3+00W	51	+8	+18	-8
	2+75	47	+10	+20	+6
	2+50	47	+10	+12	+18
	2+25	47	+2	+2	+6
	2+00W	42	0	+6	-16
	1+75	38	+6	+18	-10
	1+50	47	+12	+16	+16
	1+25	55	+4	-2	+16
	1+00W	68	-6	0	+10
	0+75	55	+6	+8	-2
	0+50	68	+2	0	+11
	0+25	72	-2	-3	+7
	0+00	65	-1	-7	+11
	0+25E	65	-6	-14	+9
	0+50	59	-8	-16	+4
	0+75	58	-8	-18	-1
	1+00E	61	-10	-15	-10
	1+25	51	-5	-8	-8
	1+50	58	-3	-7	0
	1+75	59	-4	-8	-1
	2+00E	58	-4	-6	-6
	2+25	55	-2	-2	0
	2+50	59	0	-6	+18
	2+75	68	-6	-20	+16
	3+00	59	-14	-21	+5
	3+25	55	-8	-15	+15
	3+50	65	-7	-7	+17
	3+75	42	0		

Appendix A

Line	Stn.	F.S.	Tilt	Fraser Filter	
				-7	+17
100+00	4+00E	47	+2	+2	-2
	4+25	47	0	0	0
	4+50	49	0	+2	+6
	4+75	51	+2	+6	+4
	5+00E	51	+4	+6	-2
	5+25	51	+2	+4	-2
	5+50	49	+2	+4	+6
	5+75	47	+2	+10	+12
	6+00E	47	+3	+16	+4
	6+25	51	+3	+14	+2
	6+50	53	+6	+18	+8
	6+75	53	+12	+22	+4
	7+00E	51	+10	+22	-2
	7+25	58	+12	+20	-10
	7+50	55	+8	+12	-11
	7+75	55	+4	+9	-1
	8+00E	55	+5	+11	+7
	8+25	53	+6	+13	+13
	8+50	49	+10	+24	+1
	8+75	51	+14	+20	0
	9+00E	53	+6	+24	+13
	9+25	55	+13	+30	+8
	9+50	58	+14	+32	-2
	9+75	55	+13	+30	-10
	10+00E	57	+12	+28	-14
	10+25	58	+8	+18	-4
	10+50	57	+6	+16	+4
	10+75	58	+6	+20	-10
	11+00E	50	+13	+26	-10

Appendix 'A'

Line	Stn.	F.S.	Tilt	Fraser Filter	
100+00	11+25E	59	+14	+26	-2
	11+50	59	+12	+28	-2
	11+75	62	+16	+28	+4
	12+00E	64	+12	+24	+2
	12+25	64	+12	+26	-4
	12+50	62	+14	+28	0
	12+75	64	+14	+26	+4
	13+00E	66	+12	+24	+2
	13+25	64	+12	+24	
	13+50	64	+12		

Appendix A

Line	Stn	P.S.	T lt	Fraser Filter	
102+00S	9+25 ^W	32	-20		
	9+00 ^W	38	-14	-34	
	8+75	55	-12	-26	-12
	8+50	43	-10	-22	-2
	8+25	43	-14	-24	+2
	8+00 ^W	41	-10	-14	-2
	7+75	41	-12	-22	+2
	7+50	41	-14	-26	+4
	7+25	41	-12	-26	-12
	7+00 ^W	43	-2	-14	-19
	6+75	44	-5	-7	-1
	6+50	46	-8	-13	+13
	6+25	46	-12	-20	+13
	6+00 ^W	43	-14	-26	+7
	5+75	44	-13	-27	+2
	5+50	44	-15	-28	+9
	5+25	41	-20	-35	+8
	5+00 ^W	36	-16	-16	-9
	4+75	36	-10	-36	-20
	4+50	34	-6	-16	-20
	4+25	36	0	-6	-18
	4+00 ^W	39	+2	+3	-12
	3+75	39	+4	+5	-8
	3+50	39	+6	+10	-16
	3+25	43	+16	+22	-20
	3+00 ^W	46	+14	+30	-6
	2+75	54	+14	+38	+10
	2+50	50	+6	+20	+11
	2+25	54	+8	+14	+2

Appendix A

Line	Stn.	I.S.	Tilt	Fraser	Filter
102+00				+18	-14
	2+00W	52	+10	+28	-20
	1+75	50	+18	+38	-8
	1+50	54	+20	+36	+14
	1+25	59	+16	+24	+20
	1+00W	63	+8	+16	+4
	1+75	64	+8	+20	-2
	0+50	64	+12	+18	+18
	0+25	75	+6	+2	+30
	0+00	75	-4	-12	+26
	0+25E	71	-8	-24	+24
	0+50	75	-16	-36	+12
	0+75	66	-20	-36	-10
	1+00E	70	-16	-26	-20
	1+25	61	-10	-16	-15
	1+50	59	-8	-11	+1
	1+75	59	-9	-17	+13
	2+00E	62	-12	-24	+9
	2+25	57	-12	-26	+9
	2+50	57	-14	-28	-6
	2+75	54	-14	-20	-12
	3+00E	50	-8	-16	-6
	3+25	49	-10	-14	-6
	3+50	52	-4	-10	-9
	3+75	46	-6	-8	-13
	4+00E	45	+1	+3	-7
	4+25	50	+2	+2	-1
	4+50	48	0	+1	-2
	4+75	56	+1	+4	
	5+00E	54	0		

Appendix A

Line	Stn.	P.S.	Tilt	Fraser Filter	
104+00S	11+00W	48	-24		
	10+75	43	-28	-52	
	10+50	45	-24	-52	-14
	10+25	47	-14	-38	-20
	10+00W	50	-18	-32	-4
	9+75	52	-16	-34	0
	9+50	55	-16	-32	+12
	9+25	48	-30	-46	+22
	9+00W	43	-24	-54	-8
	8+75	45	-14	-38	-24
	8+50	48	-16	-30	-34
	8+25	50	+12	-4	-29
	8+00W	57	-13	-1	+19
	7+75	60	-10	-23	+19
	7+50	55	-10	-20	-7
	7+25	60	-6	-18	-6
	7+00W	62	-8	-14	0
	6+75	60	-8	-18	0
	6+50	60	-6	-14	-10
	6+25	63	0	-6	-6
	6+00W	65	-6	-8	+6
	5+75	65	-4	-12	+2
	5+50	65	-6	-11	-1
	5+25	60	-5	-11	-3
	5+00W	65	-2	-7	-3
	4+75	60	0	-4	-4
	4+50	68	-3	-3	-5
	4+25	73	+6	+3	-9
	4+00W	64	0	+6	+3
				0	+4

Appendix A

Line	Stn	F.S.	Tilt	Fraser	Filter
104+00	11+00W	48	-24		
				-52	
	10+75	43	-28		
				-52	-14
	10+50	45	-24		
				-38	-20
	10+25	47	-14		
				-32	-4
	10+00W	50	-18		
				-34	0
	9+75	52	-16		
				-32	+12
	9+50	55	-16		
				-46	+22
	9+25	48	-30		
				-54	-8
	9+00W	43	-24		
				-38	-24
	8+75	45	-14		
				-30	-34
	8+50	48	-16		
				-4	-29
	8+25	50	+12		
				-1	+19
	8+00W	57	-15		
				-25	+19
	7+75	50	-10		
				-20	-7
	7+50	55	-10		
				-16	-6
	7+25	60	-6		
				-14	0
	7+00W	62	-8		
				-16	0
	6+75	60	-8		
				-14	-10
	6+50	60	-6		
				-6	-6
	6+25	63	0		
				-8	+6
	6+00W	65	-8		
				-12	+2
	5+75	55	-4		
				-10	-1
	5+50	65	-6		
				-11	-3
	5+25	60	-5		
				-7	-9
	5+00W	65	-2		
				-8	-4
	4+75	68	0		
				-3	-5
	4+50	70	-5		
				+5	-9
	4+25	73	+6		
				+1	+3

Appendix A

Line	Sta.	I.S.	Time	Praser Filter
104+00	4+00W	68	0	0
	3+75	68	0	+4
	3+50	70	+2	+8
	3+25	73	+6	+8
	3+00W	75	+4	+10
	2+75	75	+4	+8
	2+50	73	+6	+12
	2+25	70	+10	+18
	2+00W	80	+6	+16
	1+75	80	+4	+10
	1+50	78	+5	+7
	1+25	82	+3	+6
	1+00W	80	+5	+11
	0+75	81	+8	+10
	0+50	83	+10	+13
	0+25	80	+7	+16
	0+00	78	+5	+11

Appendix A

Line	Stn.	F.S.	Tilt	Fraser Filter	
106+00	11+00W	25	-36	-60	
	10+75	20	-24	-40	-42
	10+50	21	-16	-18	-40
	10+25	23	-2	0	-20
	10+00W	37	+2	+2	+8
	9+75	37	0	-8	+22
	9+50	49	-8	-20	+20
	9+25	49	-12	-28	+11
	9+00W	34	-16	-31	-9
	8+75	31	-15	-19	-27
	8+50	31	-4	-4	-19
	8+25	17	0	0	+12
	8+00W	47	0	-16	+24
	7+75	41	-16	-24	-4
	7+50	37	-8	-12	-20
	7+25	39	-4	-4	-4
	7+00W	43	0	-8	+4
	6+75	43	-8	-	-10
	6+50	41	0	-	-12
	6+25	49	+0	+4	-
	6+00W	47	+2	+4	+2
	5+75	55	+8	+0	+10
	5+50	65	0	-12	+24
	5+25	64	-12	-21	+3
	5+00W	62	-10	-15	-13
	4+75	59	-5	-5	-11
	4+50	58	-4	-4	-11
	4+25	59	0	+2	-10

Appendix A

Line	Stn.	F.S.	Tilt	Fraser	Filter
106+00				+2	-10
	4+00W	55	+2	+6	-10
	3+75	59	+4	+12	-8
	3+50	58	+8	+14	+2
	3+25	62	+6	+10	+10
	3+00W	55	+4	+4	+6
	2+75	59	0	+4	-6
	2+50	62	+4	+10	-10
	2+25	64	+6	+14	-12
	2+00W	65	+8	+22	-12
	1+75	68	+14	+26	-6
	1+50	74	+12	+28	+2
	1+25	77	+16	+24	+24
	1+00W	92	+6	+4	+31
	3+75	64	-2	-7	+11
	3+50	66	-5	-7	+3
	3+25	71	-2	-4	-1
	3+00	70	-2	-6	0
	3+25E	70	-4	-	-10
	3+00	70	0	-	-20
	3+75	72	+4	+16	-28
	1+00E	78	+12	+28	-8
	1+25	72	+14	+24	+14
	1+50	74	+10	+10	+28
	1+75	81	+2	-4	+23
	2+00E	80	-6	-10	+3
	2+25	75	-5	-7	-1
	2+50	75	-0	-10	+17
	3+75	79	-	-10	+16

Appendix A

Line	Stn.	F.S.	Tilt	Fraser Filter	
106+00	3+00E	75	-12	-26	+6
	3+25	77	-14	-26	-6
	3+50	70	-12	-20	-13
	3+75	70	-8	-13	-13
	4+00E	82	-5	-7	-5
	4+25	90	-2	-8	+3
	4+50	90	-6	-10	-4
	4+75	90	-4	-4	
	5+00E	87	0		

Appendix A

Line	Str.	F.S.	Tilt	Fraser Filter	
108+00	11+00W	16	0		
	10+75	16	+6	+6	
	10+50	18	+8	+14	-22
	10+25	18	+20	+28	-32
	10+00W	20	+26	+46	-30
	9+75	22	+32	+58	-34
	9+50	23	+38	+70	-14
	9+25	41	+34	+72	+16
	9+00W	46	+20	+54	+36
	8+75	49	+16	+36	+28
	8+50	55	+10	+26	+12
	8+25	52	+14	+24	-2
	8+00W	59	+14	+28	-2
	7+75	55	+12	+26	0
	7+50	55	+16	+28	+4
	7+25	60	+6	+22	+18
	7+00W	64	+1	+10	+14
	6+75	80	+4	+8	+6
	6+50	82	0	+1	+8
	6+25	76	0	0	+8
	6+00W	78	-4	-4	+8
	5+75	65	-2	-8	+8
	5+50	74	0	-8	-4
	5+25	78	0	0	+8
	5+00W	77	-8	-8	+23
	4+75	71	-10	-24	+33
	4+50	82	-20	-38	-13
	4+25	53	-20	-4	-4
	4+00W			-8	-14

Appendix A

Line	Stn.	F.S.	Tilt	Fraser	Filter
108+00	4+00W	43	-14	-18	-24
	3+75	43	-4	-10	-8
	3+50	46	-6	-10	0
	3+25	49	-4	-10	+6
	3+00W	49	-6	-16	+4
	2+75	46	-10	-14	-13
	2+50	43	-4	-3	-19
	2+25	43	+1	+5	-9
	2+00W	46	+4	+6	+5
	1+75	55	+2	0	+10
	1+50	49	-2	-4	+2
	1+25	49	-2	-2	-4
	1+00W	49	0	0	-2
	0+75	49	0	0	+2
	0+50	57	0	+2	+6
	0+25	52	+0	+6	+9
	0+00	55	+4	+4	+12
	0+50E	57	0	-3	+8
	0+75	52	-3	-2	+6
	1+00E	59	-6	-11	+6
	1+25	57	-8	-11	-5
	1+50	62	-8	-15	-3
	1+75	62	-8	-11	-11
	2+00E	60	-5	-5	-9
	2+25	62	-8	-8	-5
	2+50	61	0	0	-2
	2+75	62	0	0	+2
	3+00E	65	0	+2	+6

Appendix A'

Line	Stn	F.S.	Tilt	Fraser Filter	
108+00	3 25E	56	+2	+6	+12
	3 50	60	+4	-10	+28
	3+75	58	-14	-22	+10
	4+00E	55	-8	-20	0
	4+25	53	-12	-22	-7
	4+50	50	-10	-13	-19
	4+75	51	-3	-3	
	5+00E	54	0		

APPENDIX 'B'
CERTIFICATE OF ASSAYS

ACME ANALYTICAL LABORATORIES LTD.
 852 E. HASTINGS, VANCOUVER B.C.
 PH: (604)253-3158 COMPUTER LINE:251-1011

DATE RECEIVED SEPT 27 1985
 DATE REPORTS MAILED *Oct 3/85*

GEOCHEMICAL ASSAY CERTIFICATE

A .5000 SAMPLE IS DIGESTED WITH 3 MLS OF 3:1:2 HCl:HNO3:H2O AT 90 DEG. C. FOR 1 HOUR.
 THE SAMPLE IS DILUTED TO 10 MLS WITH WATER. ELEMENTS ANALYSED BY AA : Ag
 SAMPLE TYPE : ROCK - CRUSHED AND PULVERIZED TO -100 MESH.
 Au# - 10 GR. IGNITED, HOT AQUA REGIA LEACHED, MIBK EXTRACTION, AA ANALYSIS.

ASSAYER: *D. Toye* DEAN TOYE OR TOM SAUNDRY, CERTIFIED B.C. ASSAYER

CARRA VENTURES INC. FILE# 85-2568

PAGE# 1

SAMPLE	Mo %	Ag ppm	Au# ppb	
058292	.304	1.6	100	93+80S 8+85 E
058293	-	.3	38	95+50S 12+00 E
058294	-	.1	2	102+00S 9+25 W
058295	-	.1	1	106+00S 8+00 W
058296	-	.1	4	99+25S 8+50 W
058297	-	.1	1	99+50S 8+50 W
058298	-	.1	2	} Timberwolf 3
058299	-	.1	1	
058300	-	.2	1	

APPENDIX 'C'

QUALIFICATIONS OF AUTHOR

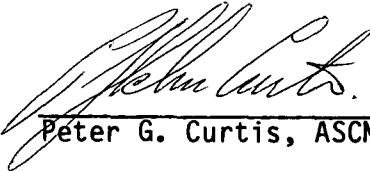
APPENDIX 'C'

QUALIFICATIONS OF SUPERVISOR AND AUTHOR OF THIS REPORT

I, Peter G. Curtis, DO HEREBY CERTIFY:

1. THAT I am a graduate of the Camborne School of Mines, England, with an additional diploma in Applied Geochemistry.
2. THAT I have been employed in mineral exploration in Canada since 1967 (10 years with ASARCO Exploration Company of Canada, Ltd.).
3. THAT I am a Fellow of the Geological Association of Canada.

DATED AT VANCOUVER, BRITISH COLUMBIA this 20th day of October 1985.



Peter G. Curtis, ASCM, DMT.

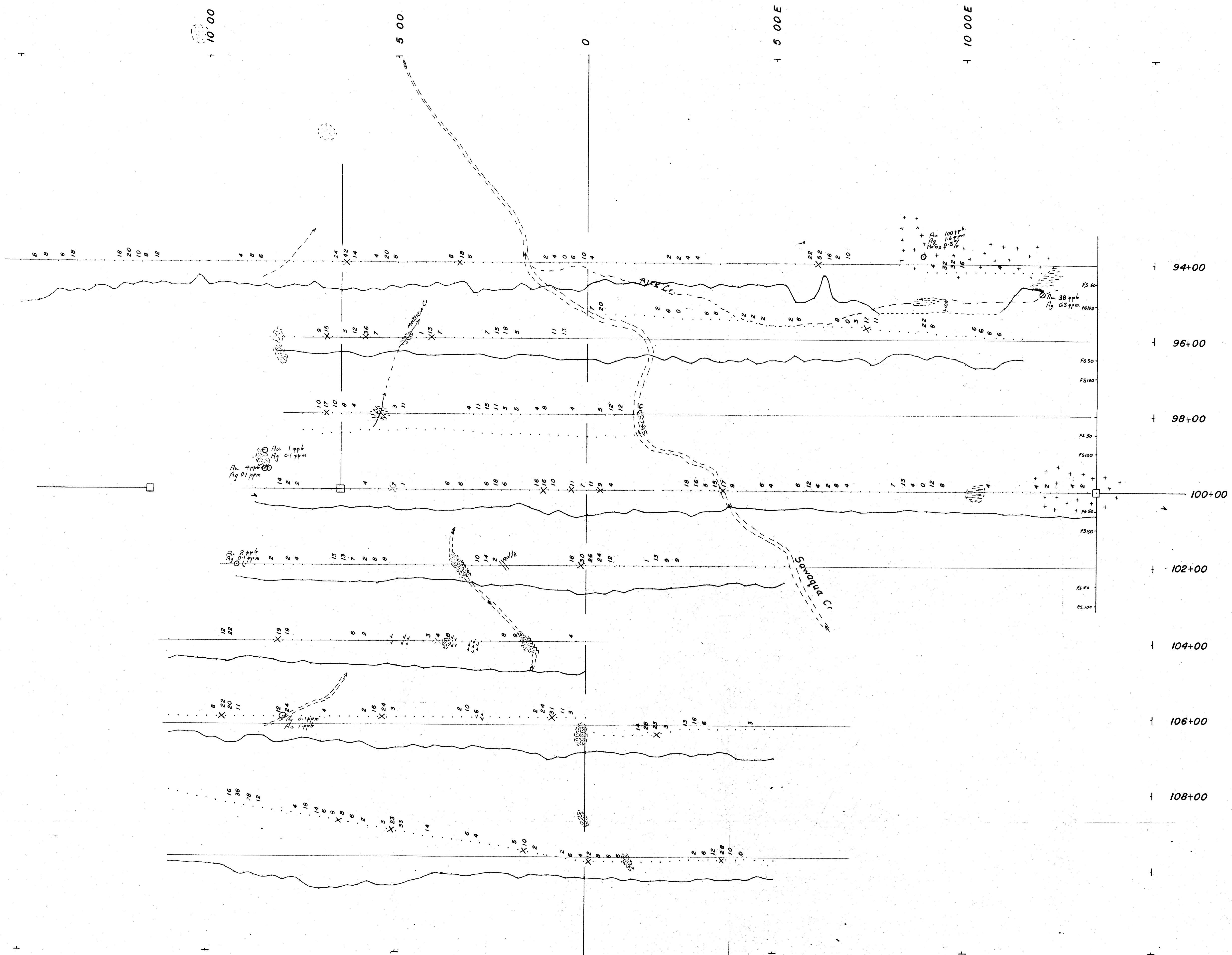
APPENDIX 'D'
STATEMENT OF COSTS

STATEMENT OF COSTS

Contract completed by G.Windrum and E.Beaucarge	
1.9Km line cutting @ \$690	1311.00
15.4km Magnetometer & VLF EM Survey @ \$260	4004.00
4 Man Days @ \$120	480.00
<hr/>	
Supervision 29 days @ \$200	5800.00
Helicopter	2760.80
Victuals	858.27
Field Equipment (incl.Mag.,EM.,& Chain saw)	1705.04
Camp Equipment (incl. rentals)	720.94
Vehicle Rental & gasoline	802.82
Preparation of report	1750.00
Typing & Drafting	350.00
	<hr/>
	20542.87

The above costs to be apportioned as follows

North Big Range Group	\$9654
South Big Range Group	\$8216
Timberline 3,4&5 Group	\$2672



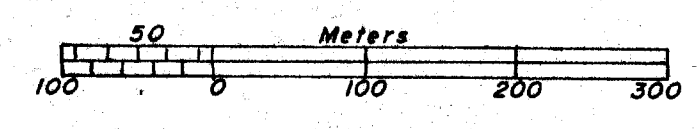
GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,570

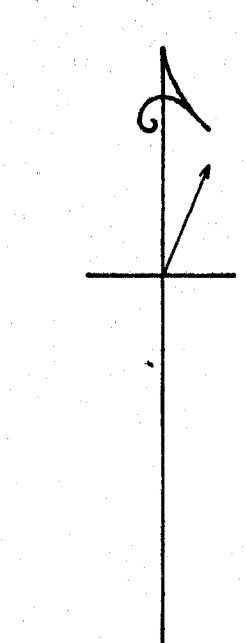
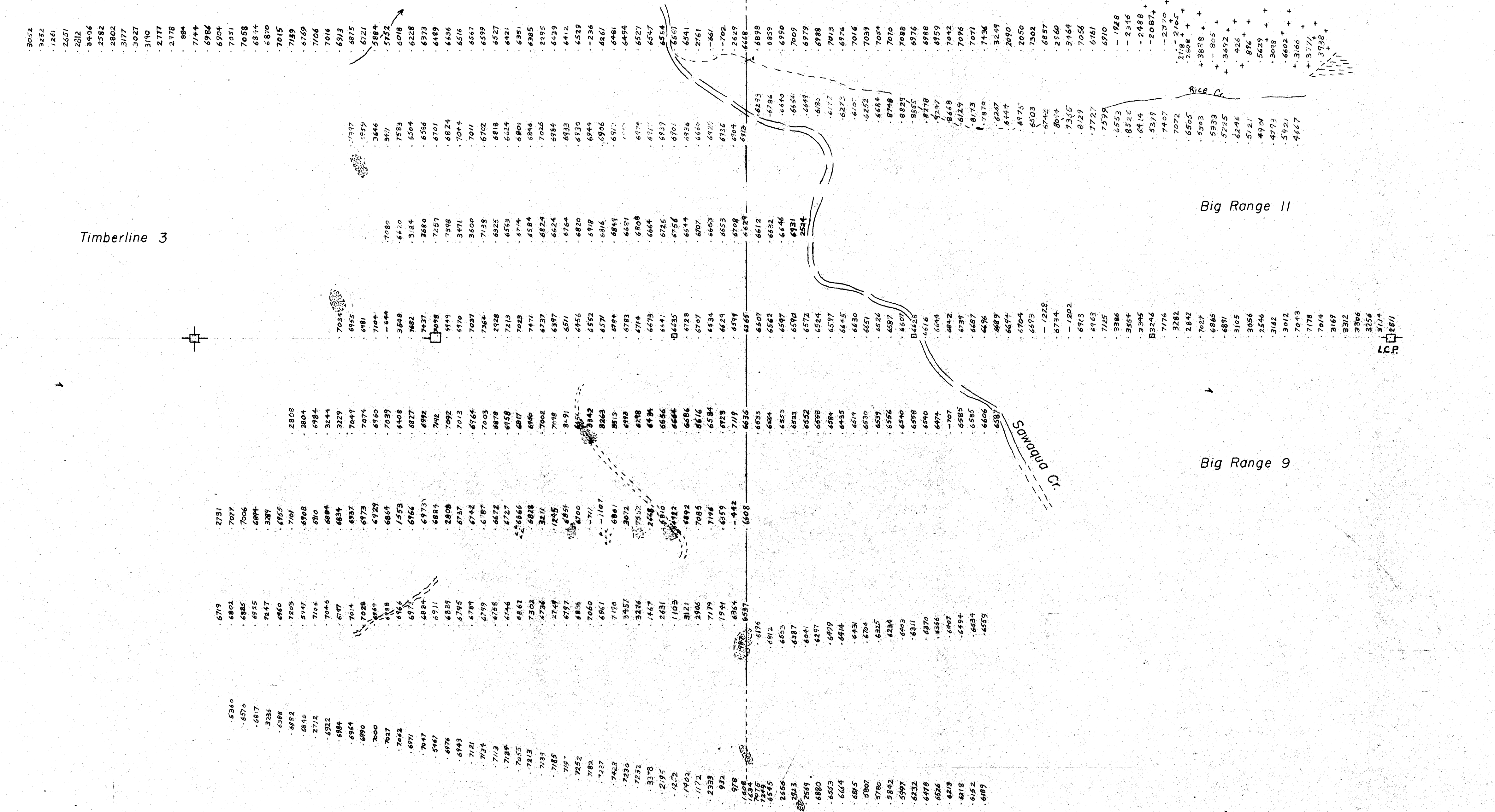
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- ▨ 1984 1985
Serpentine map grid
- ▧ Hornblend Diorite
- ▩ Andesite
- Quartz Monzonite
- ▬ Argillite, Slate
- Cut Line
- ⋯ Traverse Line

CAARA VENTURES Inc.

VLF EM Survey
1985



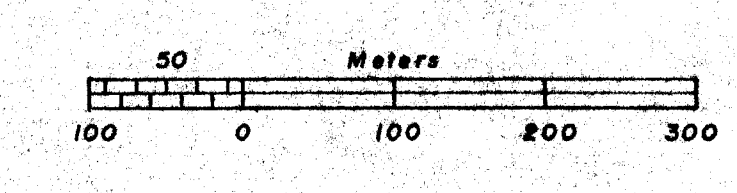
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GEOLOGICAL BRANCH ASSESSMENT REPORT

14,570 Claim Post

- Serpentine 1984 map 1985 grid
- Hornblend Diorite
- Andesite
- Quartz Monzonite
- Argelite, Slate



CAARA VENTURES Inc.

Magnetometer Survey
1985

Oct 1985 Scale 1:5000 PGC Fig 4