GEOCHEMICAL REPORT
ORIENTAL (7414)
ORIENTAL 1-6 (7415-7419)

OMINECA MINING DIVISION
93E/11E & 93E/14E

Lat. 53°~~50'N~~ 45'5"
Long. 127°~~41'W~~ 8'40"

OWNED BY: ~~R.W. Hamblin~~ ~~Atna Resour~~ R.W. Hamblin
OPERATED BY: ~~R.W. Hamblin~~ Atna Resources Ltd.

WRITTEN BY: R.W. Hamblin

Dated: October 1, 1987

TABLE OF CONTENTS

LIST OF FIGURES

APPENDICES

INTRODUCTION

(i) Location & Access

The claims are located about 115 km south of Smithers, B.C. in the Omenica Mining Division. The claims are on the southeast flank of Sibola Mountain at elevations 1177 m to 1509 m. The center of the property is at Latitude 53 50' N and longitude 127 11' W.

A two wheel drive road to Sweeney Lake from Houston passes 3 km south of the claims.

Helicopter access is from Smithers or Houston, 45 minutes distant.

(ii) History, Ownership and Economic Assessment

The property has had minor trenching and prosperity over the past twenty years and the remnants of one cabin were seen during the summer of 1987.

The brief inspection and assessment of the claims does not permit a thorough evaluation of the potential of the area. However, none of the sampling done for this report would indicate the need for immediate further work.

The area was investigated with a view to discovering any geological links and similarities between the Oriental group of claims and the W/N 1-4 claims, 2-3 kilometers NW. No strong links of this kind were discovered.

(iii) Summary

Work on the claims consisted of a helicopter -- supported fly-camp occupied by two experienced prospectors who spent 4 days in the area. A later visit to the property was made by a geologist, a prospector and the owner of the claims.

Mineralized samples were collected by the prospectors and geologist. The analysis of these samples is tabulated in Appendix 1. The sample locations are plotted on FIG. 3. A total of 15 rock chip samples and 3 stream sediment samples were costed to this project.

The samples were analyzed by Vangeochem Labs of Vancouver using standard "ICP" "fine-assay atomic-absorption-specrophotometer-finish" techniques.

(iv) Claim Information

Claim Name	Record N__
Oriental	7414
Oriental 1	7415
2	7416
3	7417
4	7418
5	7419

DISCUSSIONS & CONCLUSIONS

The intent of this reported prosperities programme was to assess the area of the Oriental reverted crown granted claims and the area of the WIN mineral claims to the northwest. The interviewing ground was prospected and sampled with a view to discovering links between the two properties.

The limited sampling done on the Oriental claims is partly a function of cover. The tree line cuts across the northern third of the block and in the limited time available the prospectors spent most time in the areas of available outcrop.

The brief visit to the Oriental by a geologist and a prospector, with Bob Hamblin, suggested that the mineralization on the Oriental group was quite different from that of the WIN claims. A quartz-molybdenite-pyrite vein was exposed in a trench in the NW part of the block but the outcrops otherwise-noted did not show evidence of the massive sulphide mineralization typical of the WIN.

The work done provides no indications for a further work programme but its very limited scope should be strongly borne in mind in any assessment of the area.

ORIENTAL

STATEMENT OF COSTS

WAGES:		
Tom Bell, prospector, July 4,6	2 @ $200/day	$400
Brian Dahl, prospector, July 4,6	2 @ $150/day	$300
Colin Harvel, geologist, July 13	$3500/day	$350
Pat Suratt, prospector, July 13	$250/day	$250
Bob Hamblin, prospector, July 13	$150/day	$150
SAMPLES:		
TB 6 Rock 1 stream sediment		
BD 7 Rock 3 stream sediments		
CH 1 Rock ---		
PS 1 Rock ___		
15 Rock @ $20/rock including prep. freight		$300
4 stream sed @ $18/sample including prep. freight		$ 72
TRANSPORTATION:		
Truck ($50 + $20 gas) 1 day rental		$ 70
Helicopter 1.2 hours @ $550/hr		$660
CAMP COSTS:		
4 mandays @ $50/man/day: room & board		$200
FINAL REPORT:		
2 x $250/man/day		$500
		$3252

VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 980-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 870702 GA JOB NUMBER: 870702 ATNA RESOURCES

SAMPLE #	Au ppb
BD-16-SS	320
BD-17-SS	10
BD-18-SS	65
BD-19-SS	5
BD-20-SS	nd
BD-21-SS	nd
BD-22-SS	nd
BD-23-SS	nd
BD-24-SS	5
BD-27-ROCK	nd
BD-28-ROCK	20
BD-29-ROCK	nd
BD-30-ROCK	nd
BD-31-ROCK	5
BD-33-ROCK	10
BD-34-ROCK	10
BD-35-ROCK	15
BD-36-ROCK	15
BD-37-ROCK	80
BD-39-ROCK	15
BD-40-ROCK	5
BD-41-ROCK	10
R-01-TB	130
R-02-TB	2810
R-03-TB	60
R-04-TB	nd
R-05-TB	5
R-06-TB	5
R-07-TB	nd
R-08-TB	10
R-09-TB	23480
R-10-TB	55

DETECTION LIMIT 5
nd = none detected -- = not analysed is = insufficient sample

Part 5.

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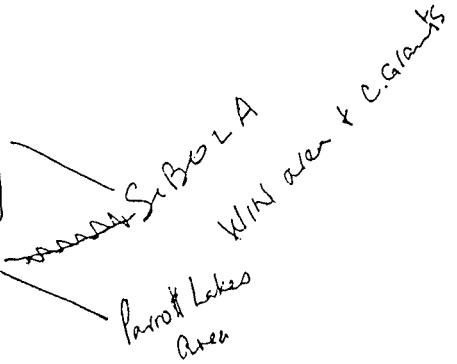
REPORT NUMBER: 870739 GA JOB NUMBER: 870739 ATNA RESOURCES

SAMPLE #	Au ppb
PS-68R	380
PS-69R	500
PS-70R	260
PS-71R	≃ 57360
PS-72R	1710
PS-73R	780
PS-74R	470
PS-75R	10
PS-77R	5100



DETECTION LIMIT 5
nd = none detected -- = not analysed is = insufficient sample

CLIENT: ATNA RESOURCES LTD. JOB#: 870741 PROJECT: REPORT: PA DATE: 87/07/22 PAGE 2 OF 2

SAMPLE NAME	AG PPM	AL %	AS PPM	AU PPM	BA PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	K %	MG %	MN PPM	MO PPM	NA %	NI PPM	P %	PB PPM	PD PPM	PT PPM	SB PPM	SN PPM	SR PPM	TI PPM	W PPM	ZN PPM
[illegible]	[illegible]																											
H-119 WIN	.5	1.92	ND	NP	32	ND	.78	6.0	7	19	378	3.36	.08	.68	943	2	.50	8	.06	12	ND	ND	ND	ND	4	27	ND	ND	171
H-120 WIN	12.0	3.84	37	7	111	10	.15	112.1	14	150	1076	8.47	.22	2.90	3393	5	.92	83	.07	1269	ND	ND	ND	4	3	ND	ND	15340
H-121 WIN	.1	4.86	ND	3	238	ND	2.51	.4	24	25	289	6.71	.16	1.91	1149	5	.21	17	.05	8	ND	ND	ND	11	152	ND	ND	259
H-122 PARROT LAKE	.3	.56	3	ND	50	ND	.36	.1	11	24	30	2.25	.10	.14	178	12	.04	11	.11	18	ND	ND	3	ND	23	3	3	126
-123 PARROT LAKE	.3	.65	ND	ND	47	ND	.44	.1	5	28	16	1.82	.09	.14	98	1	.03	10	.12	7	ND	ND	4	ND	27	3	6	58
-124 PARROT LAKE	.2	.49	ND	ND	55	ND	.29	.1	8	28	19	2.65	.11	.11	646	1	.04	13	.11	11	ND	ND	3	ND	24	ND	5	98
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1

Bob Hamblin property

Soil

07/24/87 1 (604) 684 3987 INTERACTION RES. --- See Moore Stat. (2)010

ICAP GEOCHEMICAL ANALYSIS

A .5 GRAM SAMPLE IS DIGESTED WITH 5 ML OF 3:1:2 HCL TO HNO3 TO H2O AT 95 DEG. C FOR 90 MINUTES AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN, FE, CA, P, CR, MG, BA, TI, B, AL, NA, K, W, ZR AND SC. AU AND PD DETECTION IS 3 PPM.
IS= INSUFFICIENT SAMPLE, ND= NOT DETECTED, -- = NOT ANALYZED

COMPANY: ATNA RESOURCES
ATTENTION:
PROJECT: SMITHERS REGIONAL

REPORT#: PA
JOB#: 870702
INVOICE#: NA

DATE RECEIVED: 87/07/13
DATE COMPLETED: 87/07/23
COPY SENT TO:

ANALYST W. Pearson

SAMPLE NAME	AG PPM	AL %	AS PPM	AU PPM	BA PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	K %	MG %	MN PPM	MO PPM	NA %	NI PPM	P %	PB PPM	PD PPB	PT PPB	SB PPM	SN PPM	SR PPM	U PPM	W PPM	ZN PPM
B0-SS 16	.1	1.51	11	ND	68	ND	.40	.5	12	30	36	3.34	.05	.81	1847	2	.01	20	.08	15	ND	ND	ND	1	18	ND	ND	124
B2-SS 17	.1	1.61	3	ND	46	ND	.41	.5	13	67	28	3.70	.06	1.04	1466	3	.01	20	.06	12	ND	ND	ND	1	16	ND	ND	132
B3-SS 18	1.3	1.16	96	ND	41	ND	.26	3.2	18	25	166	5.94	.06	.61	1254	7	.01	17	.06	150	ND	ND	1	1	14	ND	ND	616
B6-SS 19	.1	1.41	3	ND	36	ND	.26	.4	13	62	20	4.05	.05	.96	1159	4	.01	13	.04	8	ND	ND	ND	1	10	ND	ND	113
B8-SS 20	.1	1.59	8	ND	49	ND	.24	.5	13	57	25	4.49	.05	.86	1688	51	.01	13	.05	13	ND	ND	ND	2	14	3	ND	142
B5-SS 21	.1	1.60	13	ND	173	ND	.45	4.3	17	49	23	5.30	.07	.66	8428	22	.01	17	.07	16	ND	ND	ND	2	18	ND	ND	429
B4-SS 22	.5	1.01	28	ND	41	8	.34	1.2	12	37	268	4.60	.08	.51	1939	12	.01	7	.05	71	ND	ND	3	2	7	3	ND	309
B9-SS 23	4.4	1.83	66	ND	65	7	.61	12.1	16	50	215	5.25	.08	.91	1904	6	.04	18	.07	1798	ND	ND	ND	2	24	ND	ND	1931
B0-SS 24	.1	1.58	ND	ND	58	ND	.34	.2	14	49	23	3.57	.05	.95	1389	3	.01	17	.06	16	ND	ND	ND	1	14	ND	ND	134
B0-R 27	.1	2.18	13	ND	29	6	.36	.1	30	41	63	5.41	.02	2.16	1386	2	.01	9	.04	11	ND	ND	ND	ND	11	ND	ND	93
B9-R 28	.2	.20	ND	ND	11	ND	.08	.3	ND	66	10	.11	.05	.01	24	1	.01	1	.03	5	ND	ND	3	ND	3	13	ND	15
B5-R 29	.1	2.67	33	4	11	32	.52	.1	23	64	616	8.92	.06	2.54	1419	4	.01	18	.10	2	ND	ND	ND	ND	8	ND	15	168
B0-R 30	.1	2.95	ND	ND	16	6	1.33	.6	4	122	115	2.22	.06	.88	910	14	.01	19	.03	11	ND	ND	ND	1	32	ND	ND	217
B2-R 31	.1	.64	ND	ND	17	ND	.08	.1	3	85	31	1.43	.03	.27	510	2	.01	7	.01	12	ND	ND	ND	ND	5	6	ND	72
B8-R 33	.2	.15	ND	ND	24	ND	.10	.1	3	135	15	.81	.03	.05	334	1932	.01	3	.01	21	ND	ND	ND	ND	1	5	ND	35
B9-R 34	.8	.08	ND	ND	9	ND	.24	.1	2	209	19	.59	.04	.02	155	511	.01	5	.01	43	ND	ND	4	ND	1	10	ND	25
B5-R 35	.1	.04	ND	ND	2	ND	.01	.4	1	226	22	.70	.03	.01	51	127	.01	4	.01	11	ND	ND	3	ND	ND	10	ND	79
B0-R 36	6.9	1.29	31	4	31	11	.12	197.3	49	54	3137	7.85	.19	.32	1542	9	.45	11	.05	38	ND	ND	4	5	ND	ND	ND	24152
B6-R 37	.8	.12	ND	ND	25	ND	.01	1.6	1	78	21	1.12	.06	.01	37	1318	.01	2	.01	11	ND	ND	3	1	ND	10	ND	245
B8-R 39	87.1	3.04	15	3	31	ND	.03	1.7	29	82	>100	4.55	.01	2.74	2021	21	.02	29	.01	ND	ND	ND	ND	2	25	ND	ND	237
B5-R 40	.1	.96	ND	ND	12	ND	.07	.1	14	188	374	2.15	.02	.77	1142	10	.01	8	.01	4	ND	ND	ND	1	2	8	ND	123
B9-R 41	.4	.48	5	ND	29	ND	.17	.6	2	94	168	.81	.06	.19	371	4	.01	2	.01	9	ND	ND	ND	ND	8	11	ND	113
R1-TB 1	1.6	1.11	7	ND	15	ND	1.08	.1	38	78	1004	6.24	.06	.79	742	11	.01	7	.03	10	ND	ND	ND	1	19	4	ND	80
R1-TB 2	27.1	.13	ND	ND	12	5	.06	.1	3	185	118	2.52	.06	.03	141	37	.01	5	.01	1304	ND	ND	5	ND	1	13	ND	39
R1-TB 3	1.2	.97	6	ND	18	ND	.12	.1	10	117	103	6.00	.07	.66	507	104	.01	4	.03	53	ND	ND	3	ND	4	7	ND	101
R1-TB 4	.2	.17	ND	ND	11	ND	.03	.1	7	163	204	2.75	.05	.06	146	152	.01	4	.01	13	ND	ND	4	ND	1	8	ND	35
R1-TB 5	.3	.53	ND	ND	17	ND	.40	.1	2	183	104	1.13	.04	.34	538	3	.01	5	.02	11	ND	ND	ND	ND	6	11	ND	55
R1-TB 6	.1	.22	ND	ND	94	ND	1.45	4.1	4	40	48	2.02	.11	.20	1709	1	.01	3	.02	24	ND	ND	ND	1	70	5	ND	692
R1-TB 7	.1	2.83	13	ND	11	ND	.34	.1	5	58	39	6.01	.06	1.46	846	4	.01	21	.07	20	ND	ND	ND	4	31	ND	ND	189
R1-TB 8	.1	1.87	33	ND	13	ND	.64	.1	3	29	25	4.32	.07	.45	396	3	.01	7	.05	8	ND	ND	6	4	19	4	ND	169
R1-TB 9	29.3	.50	167	12	6	24	.04	588.9	35	120	2023	5.12	.03	.28	1257	20	.96	21	.01	231	ND	ND	8	ND	ND	ND	28	58989
R1-TB 10	6.6	.93	30	5	2	5	.20	79.6	98	82	1257	13.98	.06	.64	1081	4	.15	112	.05	42	ND	ND	4	3	6	ND	ND	7356

VANGEOCHEM LAB LIMITED

MAIN OFFICE: 1521 PEMBERTON AVE. N.VANCOUVER B.C. V7P 2S3 PH:(604)986-5211 TELEX:04-352578
BRANCH OFFICE: 1630 PANDORA ST. VANCOUVER B.C. V5L 1L6 PH:(604)251-5656

ICAP GEOCHEMICAL ANALYSIS

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THIS LEACH IS PARTIAL FOR SN,MN,FE,CA,P,CR,MG,BA,PB,AL,NA,K,W,PT AND SR. AU AND PD DETECTION IS 3 PPM.
IS= INSUFFICIENT SAMPLE, ND= NOT DETECTED, -= NOT ANALYZED

COMPANY: ATNA RESOURCES
ATTENTION:
PROJECT: SMITHERS REGIONAL

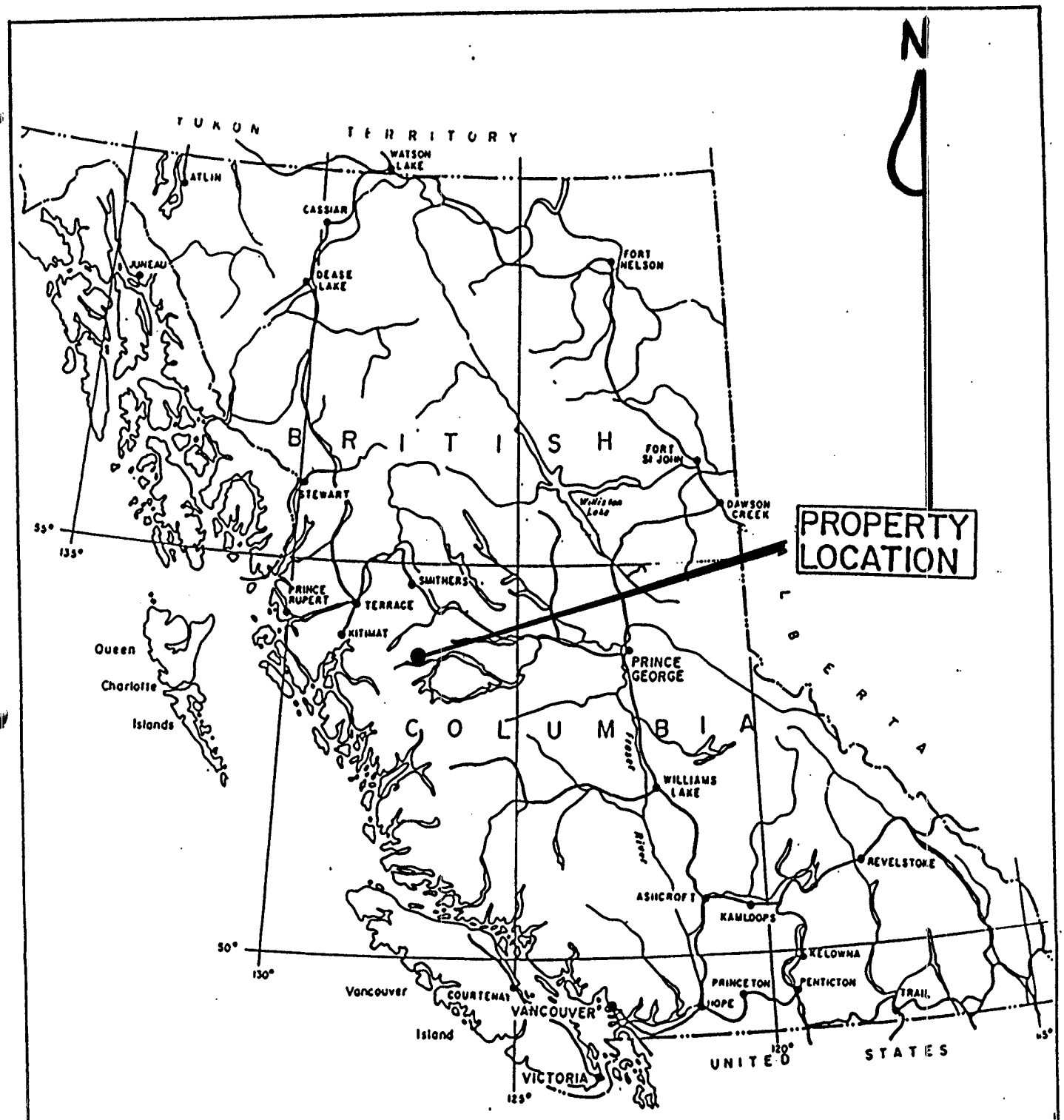
REPORT#: PA
JOB#: 870739
INVOICE#: NA

DATE RECEIVED: 87/07/16
DATE COMPLETED: 87/07/23
COPY SENT TO:

ANALYST (signature)

SAMPLE NAME	AG PPM	AL %	AS PPM	AU PPM	BA PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	K %	MG %	MN PPM	MO PPM	NA %	NI PPM	P %	PB PPM	PD PPM	PT PPM	SB PPM	SN PPM	SR PPM	U PPM	W PPM	ZN PPM
S-R68	18.5	.08	29	11	5	14	.07	173.1	10	57	635	42.09	.22	.04	1220	7	.01	1	.01	69	ND	ND	9	29	[illegible]	ND	ND	26644
S-R69	7.3	.44	22	ND	19	4	.01	.2	29	53	104	6.58	.10	.04	79	3	.12	6	.01	10	ND	ND	5	2	ND	ND	ND	164
S-R70	11.6	.38	43	ND	49	17	.01	1.1	2	62	84	1.41	.19	.03	903	5	.01	2	.01	500	ND	ND	5	ND	1	6	19	278
S-R71	78.1	.08	1771	31	9	106	.01	682.2	18	179	1485	2.86	.03	.01	712	19	.01	9	.01	1514	ND	ND	11	ND	ND	ND	152	57456
S-R72	55.2	.05	87	20	3	119	.01	>1000	39	133	259	6.78	.02	.02	2379	42	.01	14	.01	11236	ND	ND	7	ND	ND	ND	1294	>10%
S-R73	6.1	.15	5	ND	8	3	.32	15.8	45	218	2451	6.55	.06	.06	154	788	.01	5	.01	99	ND	ND	6	5	2	ND	ND	2258
S-R74	.5	.44	20	ND	37	3	.28	5.4	13	54	48	2.95	.10	.19	157	19	.01	11	.07	50	ND	ND	5	ND	27	9	3	820
S-R75	.3	.91	56	ND	43	4	.40	6.8	23	96	69	5.47	.15	.19	213	76	.01	17	.12	64	ND	ND	6	ND	62	10	ND	1023
S-R77	1.5	.34	ND	ND	375	5	.07	1.1	5	182	49	.93	.06	.17	136	8	.01	7	.02	84	ND	ND	7	ND	17	10	[illegible]	175
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1

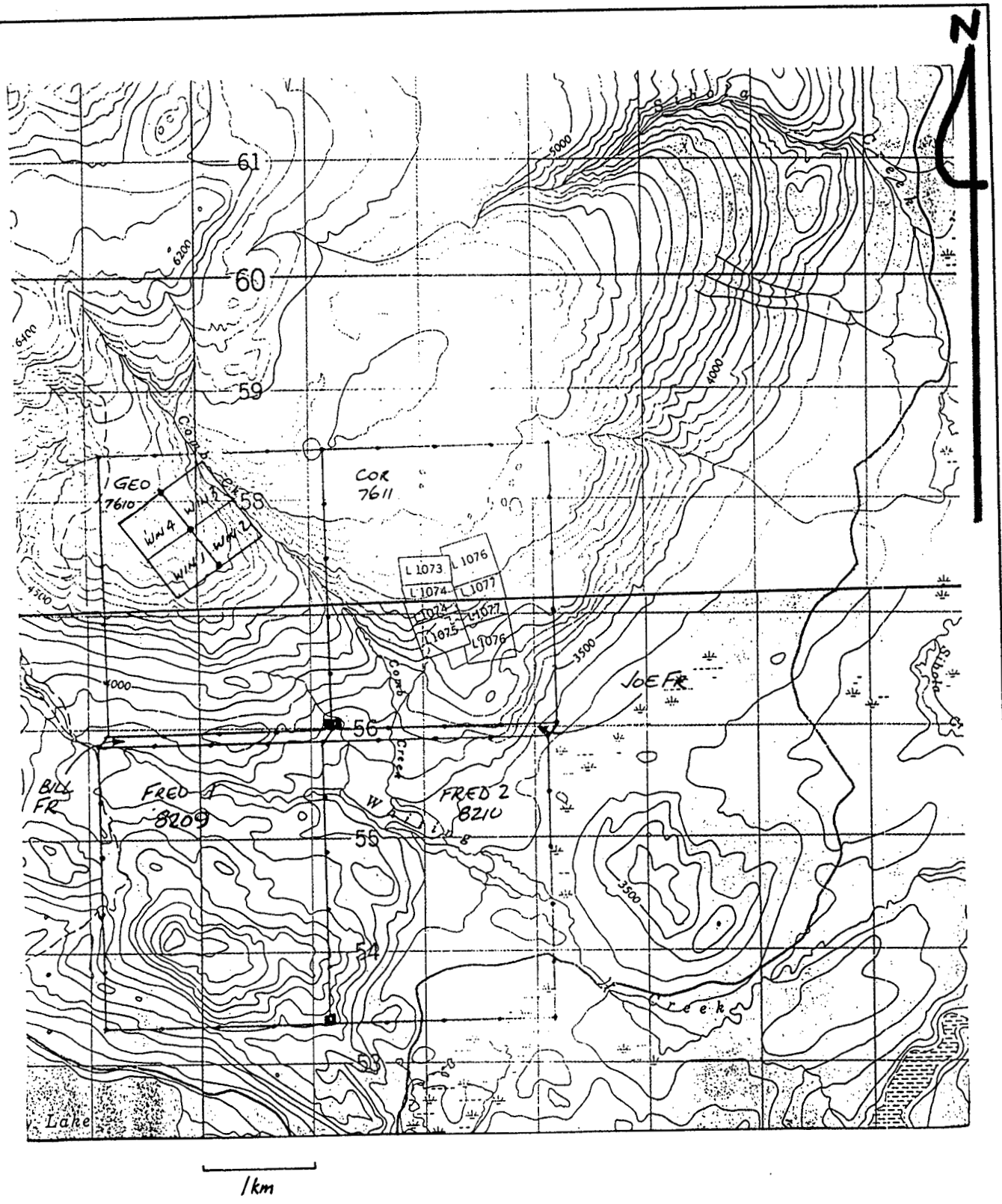
Parrott Lake



LOCATION MAP

ORIENTAL CLAIMS

93E/11E	DATE: OCT 87
SCALE AS SHOWN	FIGURE NO. 1



ORIENTAL CLAIMS
93 E/11E

FIG 2
1:50000
OCT 87

STATEMENT OF QUALIFICATIONS

I, Robert W. Hamblin of Houston, B.C., do hereby certify that;

1. I am a prospector and have worked in the Houston - Smithers area since 1960.

2. I currently own five properties in the Houston area and have held one of these since 1960.

3. I am a Contractor and have done substantial amounts of mechanical stripping and road building.

4. I have taken numerous field trips with exploration geologists over the past twenty years and have thereby added to my knowledge of the geology and mineralization of the area.

Signed: R. Hamblin

R. W. Hamblin.

Dated: Dec 11, 1987

N

TB R-7

boulder conglom

TB R-8

shale hornfels

py cal lim sil ser

BD 23 s.s.

gossan

BD 22 s.s.

shale

interbedded feldspar porphyry andesite & tuffs.

TB R-6

WIN 3 M.C.

WIN 4 M.C.

BD 37R

numerous trenches

TB-R-12 interbedded tuffs

TB R-10 qtz py Zn Cu Pb

TB R-11 py Po Zn Cu

CH 120 TB R-9

PS 71 R 72 R qtz py Zn Cu Ag Pb

BD 27 RF

BD 18 s.s.

py Po Cu Ag P

ferricrete

BD 36R

py Po

PS 70

PS 68 R 69 R CH 119

cat road

dark andesite qtz py Zn Cu

dark andesite

WIN 2 M.C.

WIN 1 M.C.

BD 28 R.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,460

LEGEND

△, ⊿	TB 2R	Rock chip sample loca.
□	BD 36	Stream sediment sam.
◌		Outcrop
		Trench, with dump

Scale 500m

4W 3W 2W 1W

andesite tuff.

BD 40R
BD 41R

tuff breccia and andesite
BD 39R

5N

4N

3N

2N

1N

BD 21 S.S.

BD 20 SS.

pond

BD 35R

breccia & tuff
some barite in fracture fillings

BD 16 SS

pond

qtz float

BD 25R

andesite breccias

breccia & tuff
some barite in fracture fillings

siliceous, chloritic andesite

qtz float

andesite, breccias

hornfels outcrop
with qtz veins, some epidote

qtz veins
in trench

BD 33R
BD 34R

BD31R

BD 18 SS.

qtz feldspar porphyry

qtz feldspar porphyry

TB-R4

silicified, pyritic andesite
29R

silicified tuff
BD30R

tuffs, breccia

CH121 in wallrock
PS 73 in qtz vein

inter-bedded tuffs,

andesite breccias, rhyolite breccias.

interbedded andesite breccia, tuffs

TB-3S

TB-2S

TB-1S

COMB CREEK

ORIENTAL GROUP OF REVERTED CROWN GRANTS

LEGEND

△,⁂	TB 2R	Rock chip sample location, float
□	BD 36	Stream sediment sample location
⬚		Outcrop
		Trench, with dump

Scale 500 m

GEO COR 5N×4E
LCP LCP

1E

2E

3E

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,460

R. W. HAMBLIN PROSPECTING

WIN MINERAL CLAIMS
ORIENTAL MINERAL CLAIMS
SAMPLE LOCATION MAP

FIG 3

93E/11E, 14E

Omineca M.D.
OCT '87.