

85-718-B
13923
7/86

PROSPECTING REPORT
ON

DELTA 1 MINERAL CLAIM

OMINECA MINING DIVISION

93M/7

55 22'N 126 55'W

OWNED BY: COLIN HARIVEL

OPERATOR: ATNA RESOURCES LTD.

WRITTEN BY: COLIN HARIVEL

DATED: SEPTEMBER 1985.

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

13,923

TABLE OF CONTENTS

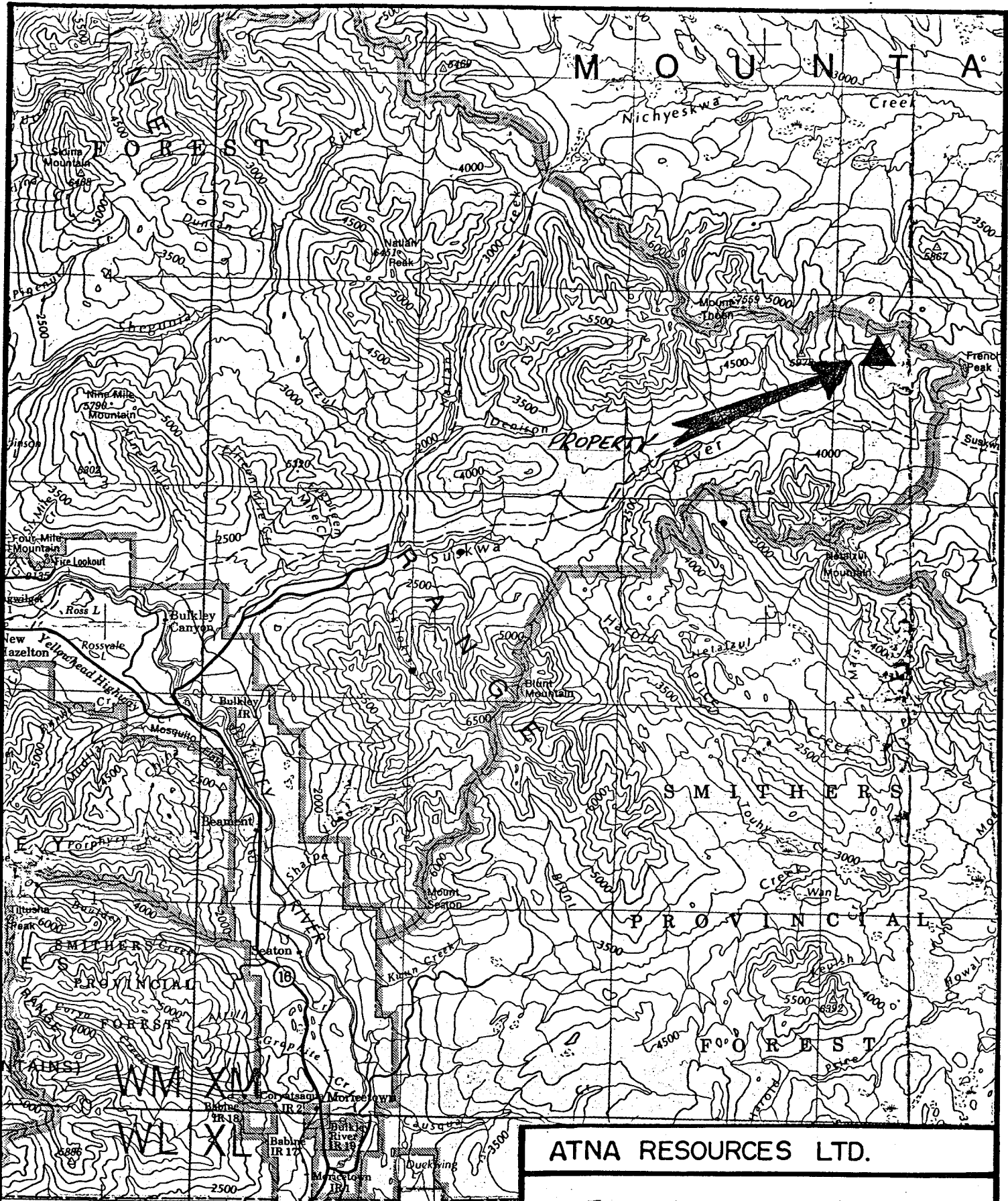
INTRODUCTION	1.
(i) Location and Access	1.
(ii) History, Ownership and Economic Assessment	1.
(iii) Summary	1.
(iv) Claim Information	1.
DISCUSSION AND CONCLUSIONS	2.
STATEMENT OF COSTS	3.

LIST OF FIGURES

FIG. 1	Index Map
FIG. 2	Claim Map
FIG. 3	Sample Location Sketch

APPENDICES

APPENDIX 1	Analytical Results
APPENDIX 2	Statement of Qualifications of Author



ATNA RESOURCES LTD.

FRENCH PEAK PROPERTY
 LOCATION MAP
 93 M

SCALE = 1: 250,000

FIG. 1

DATE: AUGUST, 1985

DRAWN: CH

Copies may be obtained from the Canada Map Office,
 Department of Energy, Mines and Resources, Ottawa,
 or your nearest map dealer.

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INTRODUCTION

(i) Location and Access.

The Delta 1 mineral claim is located on the west flank of French Peak on a tributary of the Suskwa River near the headwaters. The center of the claim lies some 20km west northwest of the village of Fort Babine, B.C.

Elevations on the claim range from 1280m (4200') to 1737m (5700'). The forest cover is spruce.

Access was by helicopter from Smithers.

(ii) History, Ownership and Economic Assessment.

The property was staked in June 1984 as a result of the release of government Regional Geochemical Survey data. A single sample stream sediment anomaly (see location, Fig. 3) was deemed to be of significant interest.

The claim is owned by Colin Harivel of Smithers, B.C. and funds for the exploration of the ground were provided by Atna Resources Ltd.

The property was deemed to have low economic potential.

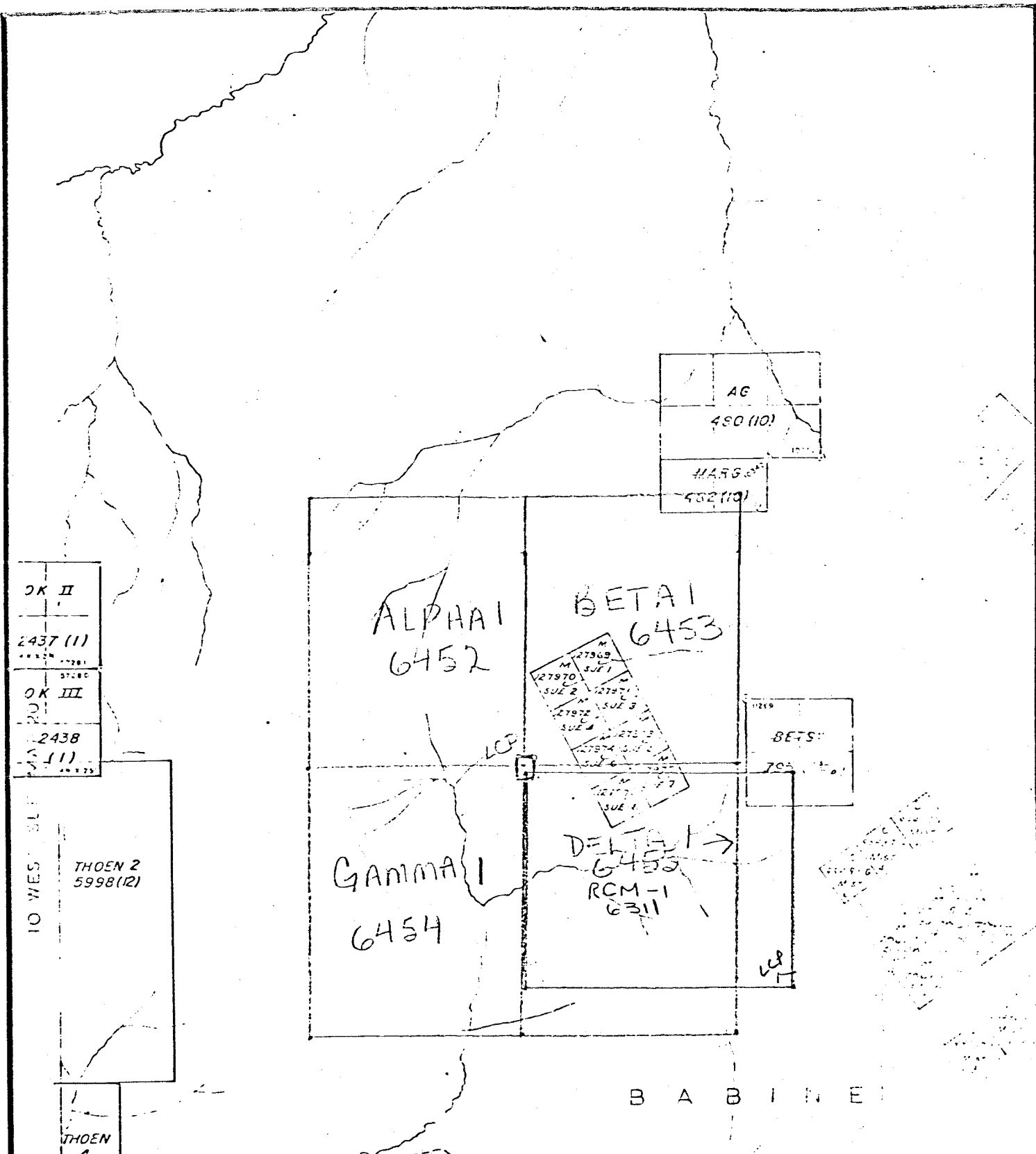
(iii) Summary.

Work on the claim consisted of a helicopter supported visit during which the anomaly source-area was prospected. Mineralized samples were collected by two Atna representatives and the analyses of these samples is reported in Appendix 1.

Eight rock chip samples were taken and submitted for analysis.

(iv) Claim Information.

Delta 1 6455 July 24 20 units.



OK II
2437 (11)
57280
OK III
2438
S (11)
48 225

AG
450 (10)
MARG
452 (10)

10 WES. SLP
THOEN 2
5998 (12)

M 27969
SUE 1
M 27970
SUE 2
M 27971
SUE 3
M 27972
SUE 4
M 27973
SUE 5
M 27974
SUE 6
M 27975
SUE 7
M 27976
SUE 8

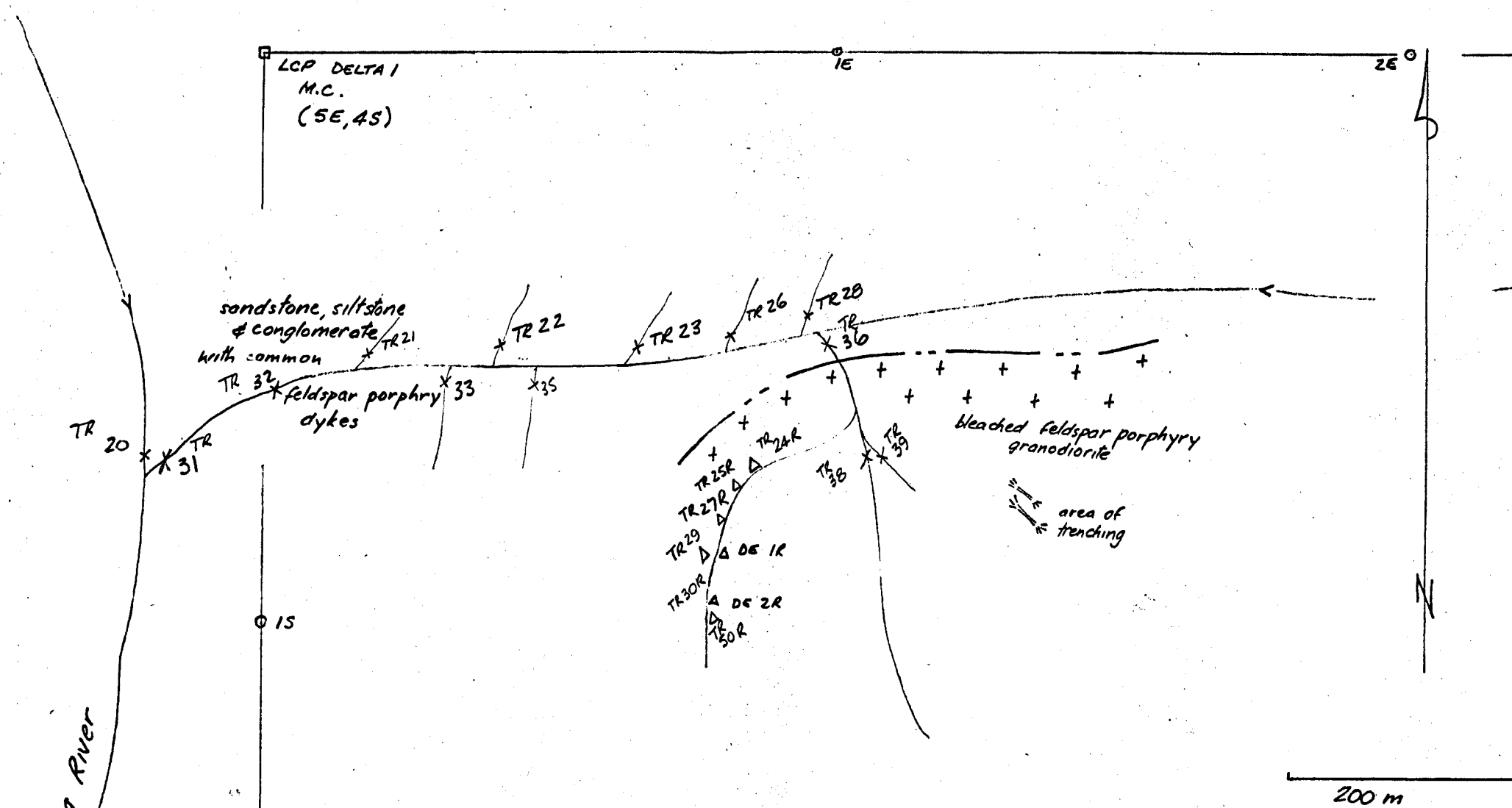
BETS
705

THOEN
4
6000
(12)

27765, 277
SUSCAN 505
27766, 277
SUSCAN 1

B A B I N E I

ATNA RESOURCES LTD.
FRENCH PEAK PROPERTY
CLAIM LOCATION: DELTA I
93M/7
SCALE = 1: 50,000
DATE: AUGUST, 1985 DRAWN: CH



KEY

- Δ, Δ : ROCK SAMPLE, FLOAT
- X : STREAM SEDIMENT SAMPLE
- - - : GEOLOGICAL CONTACT
- + + : INTRUSIVE

ATNA RESOURCES LTD.	
FRENCH PEAK PROPERTY	
SAMPLE LOCATION SKETCH	
SCALE = 1: 5,000	FIG. 3
DATE: AUGUST 1985	DRAWN: CH

DISCUSSION AND CONCLUSIONS

The area traversed was underlain by sandstones, siltstones, and conglomerates of the Bowser Lake Group which were intruded by feldspar porphyry granodiorite assigned to the Bulkley Intrusions of Cretaceous age.

Mineralized samples, most commonly disseminated pyrite, were sent for analysis and the results appear as an appendix. Inspection of the results reveals that two samples are anomalous for precious metals viz., TR30R and TR50R which ran 57.0 ppm Ag and 13.6 Ag respectively. In addition, TR30R ran 130 ppb Au. Both samples were well mineralized with galena and sphalerite.

The area is deemed to be of no further interest as a potential precious metals vein deposit site.

STATEMENT OF COSTS

Wages:

Tom Richards, PhD, geologist, July 9, 1985	
One day @ \$450/day	\$450
Dan Ethier, prospector, July 9, 1985	
One day @ \$175/day	\$175

Helicopter:

Portion of Flight Invoice from Northern Mountain Hel.	
Prorated from total bill of \$997	\$310

Expended Supplies:

To replace flagging, hip-chain filament, sample bags	
Total	\$89

Office Expenses:

Phone calls, preparation of photocopies and maps,	\$48
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Report Preparation:

1 day @ \$300/day	\$300
Drafting and typing	\$72

<u>TOTAL</u>	<u>\$1444</u>
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APPENDIX 1



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

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

REPORT NUMBER: 85-75-003

JOB NUMBER: 85183

TOM RICHARDS

PAGE 1 OF 2

SAMPLE #	Au oz/st	Au ppb
----------	-------------	-----------

<i>Delta</i>	DE 1R	--	5
	DE 2R	--	<5
<i>Skilokis</i>	H 314R	.082	2800
	H 315R	.034	1160
	H 316R	.009	300

<i>Natalzul</i>	NET 1R	--	<5
	NET 2R	--	5
	NET 3R	--	<5
	NET 4R	--	<5
	NET 8R	.006	200 x
	NET 10R	--	<5
	NET 11R	.009	300 x
	NET 12R	--	75
	NET 14R	.012	400 x
	NET 15R	--	230

<i>Skilokis</i>	PS 35R	--	10
	PS 38R	--	130
	PS 39R	--	5
	PS 43R	.856	> 10000 x
	PS 45R	.009	300

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.005
1 ppm = 0.0001%

5
ppm = parts per million

< = less than

signed: _____



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PAGE 1 OF 2

SAMPLE #	Au oz/st	Au ppb
----------	-------------	-----------

Delta

DE 1R	--	5
DE 2R	--	<5

Skilokit

H 314R	.082	2800
H 315R	.034	1160
H 316R	.009	300

Netalzel

NET 1R	--	<5
NET 2R	--	5
NET 3R	--	<5
NET 4R	--	<5
NET 8R	.006	200 x
NET 10R	--	<5
NET 11R	.009	300 x
NET 12R	--	75
NET 14R	.012	400 x
NET 15R	--	230

Skilokit

PS 35R	--	10
PS 38R	--	130
PS 39R	--	5
PS 43R	.856	>10000 x
PS 45R	.009	300

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.005 5

1 ppm = 0.0001%

ppm = parts per million

(= less than

signed: _____

Suskwa River

Inno

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

A .5 GRAM SAMPLE IS DIGESTED WITH 5 ML OF 3:1:3 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 SN, MN, FE, CA, P, CR, MG, BA, PD, AL, NA, K, W, PT AND SR. AU AND PD DETECTION IS 3 PPM.
IS= INSUFFICIENT SAMPLE, ND= NOT DETECTED, -= NOT ANALYZED

COMPANY: TOM RICHARDS
ATTENTION: ATNA RESOURCES
PROJECT:

REPORT#: 85-75-003 A
JOB#: 85183
INVOICE#: 8717

DATE RECEIVED: 85/07/15
DATE COMPLETED: 85/07/17
COPY SENT TO: T. RICHARDS & C. HARIVEL ANALYST W. Burns

PAGE 1 OF 1

Table with columns: SAMPLE NAME, AG, AL, AS, AU, BA, BI, CA, CD, CO, CR, CU, FE, K, MG, MN, ND, NA, NI, P, PB, PD, PT, SB, SN, SR, U, W, ZN. Rows include samples like DE-1R, H-314R, NET-1R, etc.

S.I.t.s ? x

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

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

COMPANY: TOM RICHARDS
 ATTENTION: TOM RICHARDS
 PROJECT: --

REPORT#: 85-75-004
 JOB#: 85184
 INVOICE#: 8741

DATE RECEIVED: 85/07/15
 DATE COMPLETED: 85/07/22
 COPY SENT TO:

ANALYST *W. P. Lewis*

PAGE 1 OF 1

SAMPLE NAME	AG	AL	AS	AU	BA	BI	CA	CD	CO	CR	CU	FE	K	MG	MN	MO	NA	NI	P	PB	PD	PT	SB	SN	SR	U	W	ZN
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
85 H314	5.8	2.10	588	ND	108	5	.80	5.0	13	20	128	5.57	.19	.97	789	3	.11	8	.13	299	ND	ND	15	3	119	13	ND	256
85 H315	4.8	2.81	458	ND	93	4	1.31	3.5	13	10	112	3.54	.18	.93	726	8	.13	7	.14	199	ND	ND	11	1	195	21	ND	173
85 TR31C	.6	1.84	23	ND	281	ND	1.28	.8	6	6	25	2.79	.15	.28	1244	2	.19	7	.15	14	ND	ND	ND	ND	116	9	ND	87
85 TR32	.2	2.03	31	ND	173	ND	.42	1.6	17	9	182	5.04	.14	.61	1346	6	.09	15	.09	40	ND	ND	4	ND	45	3	ND	262
85 TR33	.1	2.66	14	ND	177	ND	.58	.8	16	7	40	5.42	.16	.68	1570	1	.09	11	.09	11	ND	ND	ND	ND	61	5	ND	120
85 TR35	.4	1.56	65	ND	288	ND	.48	7.0	24	8	36	4.94	.13	.39	7870	4	.10	8	.15	81	ND	ND	3	ND	50	ND	ND	390
85 TR36	.5	1.39	90	ND	121	ND	.26	5.9	17	9	75	4.11	.13	.49	2428	5	.11	9	.09	86	ND	ND	7	ND	24	ND	ND	551
85 TR37	.8	1.79	124	ND	157	ND	.54	5.9	21	8	81	4.79	.16	.46	2915	5	.17	9	.14	121	ND	ND	6	ND	58	7	ND	587
85 TR38	.5	1.18	57	ND	135	3	.26	7.9	16	9	103	3.58	.12	.45	2800	3	.11	10	.09	115	ND	ND	5	ND	24	3	ND	541
85 TR39	1.1	1.64	154	ND	160	ND	.52	9.3	21	8	104	5.34	.15	.45	3339	4	.15	11	.16	209	ND	ND	5	ND	53	ND	ND	762
85 TR20 SILT	.2	2.35	29	ND	194	ND	.44	.8	18	11	37	5.90	.16	.74	1588	1	.08	18	.09	19	ND	ND	5	ND	41	3	3	140
85 TR21	.5	2.34	17	ND	237	ND	.76	.3	7	9	22	3.40	.12	.37	956	2	.11	7	.14	14	ND	ND	ND	ND	128	6	ND	118
85 TR22	.1	2.47	36	ND	245	ND	.80	.3	15	17	34	4.83	.15	.66	1986	5	.10	15	.12	15	ND	ND	ND	ND	87	7	ND	127
85 TR23	1.2	1.35	77	ND	154	ND	.29	1.7	24	10	458	7.28	.15	.41	1467	21	.08	12	.12	118	ND	ND	16	ND	44	ND	ND	357
85 TR26	.2	1.84	41	ND	157	ND	.26	2.7	16	10	146	4.22	.11	.56	952	8	.08	10	.08	66	ND	ND	6	ND	31	ND	ND	244
85 TR28	.2	1.30	51	ND	161	ND	.23	6.3	22	7	71	4.07	.10	.38	3554	4	.08	11	.09	48	ND	ND	4	ND	36	ND	ND	338
85 NET1	.4	3.05	182	ND	176	ND	.41	5.8	18	12	66	5.09	.14	.75	1825	9	.09	12	.09	78	ND	ND	13	ND	71	ND	ND	351
85 NET2	.1	3.84	68	ND	176	ND	.36	2.7	22	13	46	6.33	.15	.83	3665	67	.08	11	.11	33	ND	ND	ND	1	53	ND	7	185
85 NET3	.3	2.56	322	ND	213	ND	.57	7.5	23	12	41	7.35	.17	.71	7818	7	.10	15	.10	33	ND	ND	6	2	115	ND	ND	206
85 NET4	1.2	2.97	63	ND	156	ND	.62	6.3	13	13	97	3.91	.14	.71	1084	12	.12	9	.11	54	ND	ND	7	ND	99	ND	ND	383
85 NET5	1.2	3.15	73	ND	144	ND	.63	9.8	19	16	135	4.78	.15	.85	1670	15	.11	25	.11	73	ND	ND	8	1	98	ND	7	624

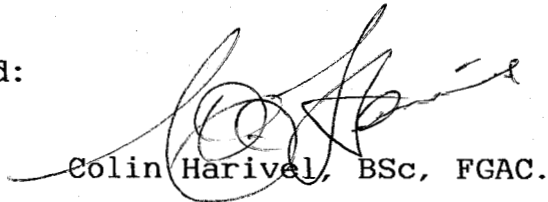
APPENDIX 2

STATEMENT OF QUALIFICATIONS

I, Colin Harivel, of business address Box 233, Smithers, B.C. do certify that;

1. I am a geologist and have practised my profession in the mining exploration industry in Australia, Canada and the United States of America.
2. I am a graduate in geology from the University of British Columbia with the degree of Bachelor of Science (1972).
3. I am a Fellow of the Geological Association of Canada.
4. I have, in the course of my professional work in Canada, explored for deposits of the type that may exist on the property described.
5. This report was prepared from notes taken by me and by other competent geologists and prospectors who have worked on the claims described in this report.

Signed:


Colin Harivel, BSc, FGAC.

STATEMENT OF QUALIFICATIONS

We, the undersigned, do hereby state that;

1. This prospecting report was prepared from notes made by us during the prospecting of the claims described in this report.

2. We are qualified, experienced prospectors and have worked in west central British Columbia in the mineral exploration industry for at least seven years.

3. This report accurately reflects our observations with respect to the claims which are the subject of this report.

Tom Richards, PhD, geologist, prospector



Pat Suratt, prospector

Bruce Holden, prospector

Colin Harivel, BSc, geologist, prospector

Dan Ethier, prospector