87-118-15818

3/88

1986 GEOCHEMICAL REPORT ON THE

JOANNA I AND II MINERAL CLAIMS

Toodoggone River Area
OMINCEA Mining Division
NTS 94E/6

Latitude 57°28'N
Longitude 127°05'W

FOR

Armor Development Corporation
1984 - 1055 Dunsmuir Street
Vancouver, B.C.
V7X 1L3

BY

James S. Steel, B.Sc.
and
J. Paul Sorbara, M.Sc., F.G.A.C.
Hi-Tec Resource Management Ltd.
1590 - 609 Granville Street
Vancouver, B.C.
V7Y 1C6

October 23, 1986

HI-TEC
RESOURCE
MANAGEMENT
LIMITED

SUMMARY

The Joanna I and II mineral claims are located in the Toodoggone River area, approximately 240 kilometers north of Smithers, B.C., and cover precious metal and base metal geological anomalies.

The Toodoggone gold belt encompasses an area stretching from Thutade Lake to the Stikine River, within which are numerous precious metal prospects. The gold-silver deposits of Dupont of Canada Exploration Ltd. (Baker Mine) and Serem Inc. (Lawyers) occur in the centre of this belt. The area is underlain by volcanic and sedimentary rocks of Permian, Triassic and Jurassic ages. Sub-volcanic and plutonic intrusions of Jurassic age are also present.

Most of the known vein-type precious metal deposits and occurrences are adjacent to major northwest and north trending regional fault structures. Other important types of mineralization are the porphyry-type copper and gold, and the copper, silver, lead and zinc skarns associated with the Jurassic intrusions.

Exploration work during 1986 on the Joanna I and II claims has further defined geochemically anomalous areas of interest using soil and rock geochemistry. These results, combined with those of previous work performed on the property, indicate good potential for the discovery of precious metal deposits on the Joanna claims. A more detailed examination of the property is recommended.

TABLE OF CONTENTS

INTRODUCTION

Location and Access

The property is situated in the Toodoggone River area, some 340 kilometers north of Smithers, B.C. (Figure 1). This area is 4 kilometers northeast of the JD property of Energex Minerals Ltd. Most of the claim area lies above timberline, but the lower areas are covered by scrub brush. The terrain is moderately rugged with areas barren of vegetation consisting of exposed rock and/or scree material.

Access is by fixed-wing aircraft to the Sturdee airstrip 290 kilometers north of Smithers, and then by helicopter 50 kilometers to the north.

Property and Ownership

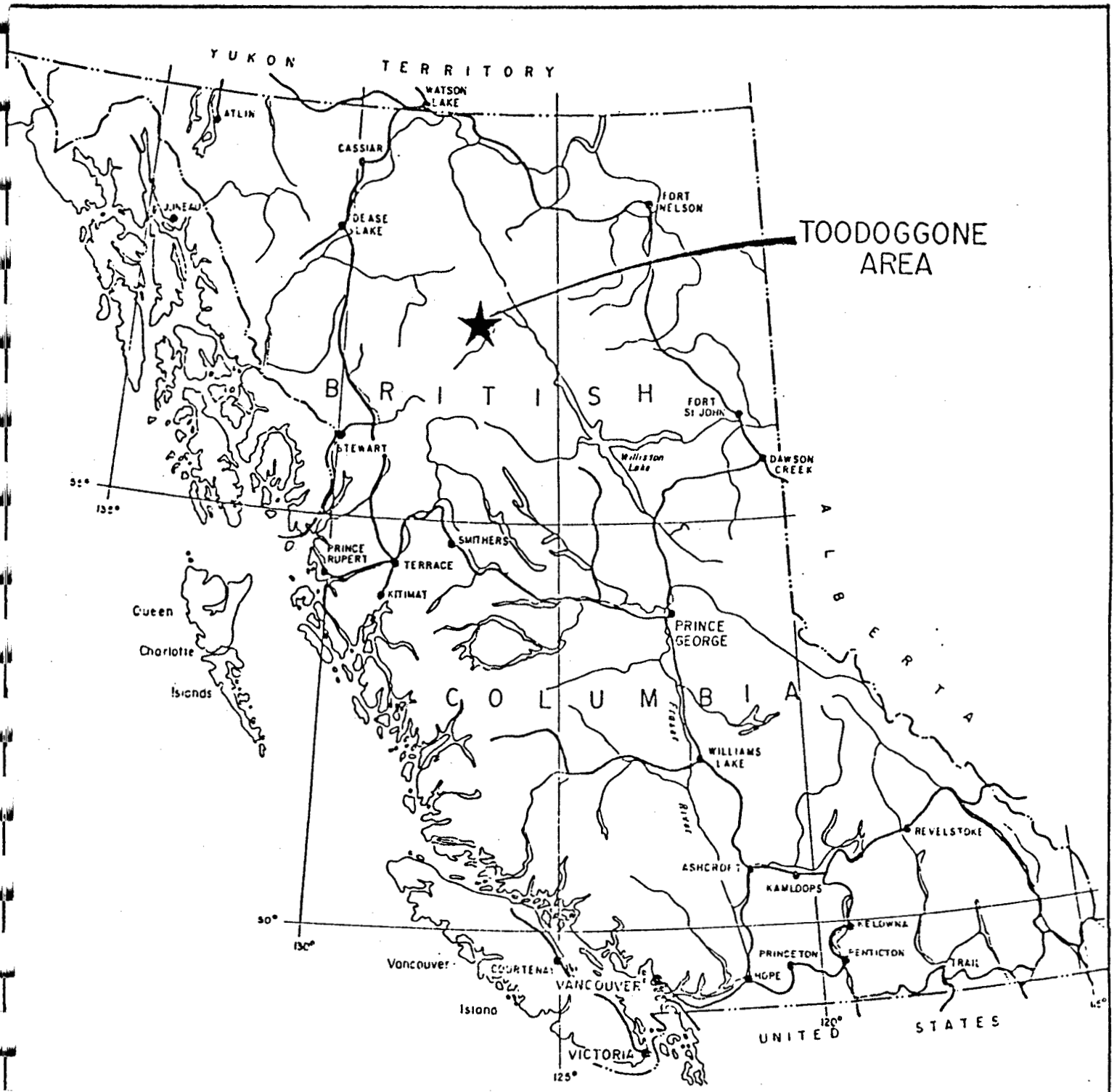
The Joanna I and II claims, each twenty units in size, are owned by Armor Development Corporation. The claims are situated on Belle Creek in the Omineca Mining Division (Figure 2) approximately 340 kilometers north of Smithers, B.C.

The pertinent claim data are as follows:

Claim	Record No.	Units	Record Date
Joanna I	6939	20	March 25, 1986
Joanna II	6940	20	March 25, 1986

History and Previous Work

The earliest record of exploration and mining in the area relates to placer mining activities on McClair Creek and Toodoggone River in 1930. There was sporadic exploration for gold, copper, lead and zinc between 1934 and 1960. The area was



ARMOR DEVELOPMENT CORP

JOANNA I, II CLAIMS

Omineca M.D., B.C. NTS 94E/7

LOCATION MAP

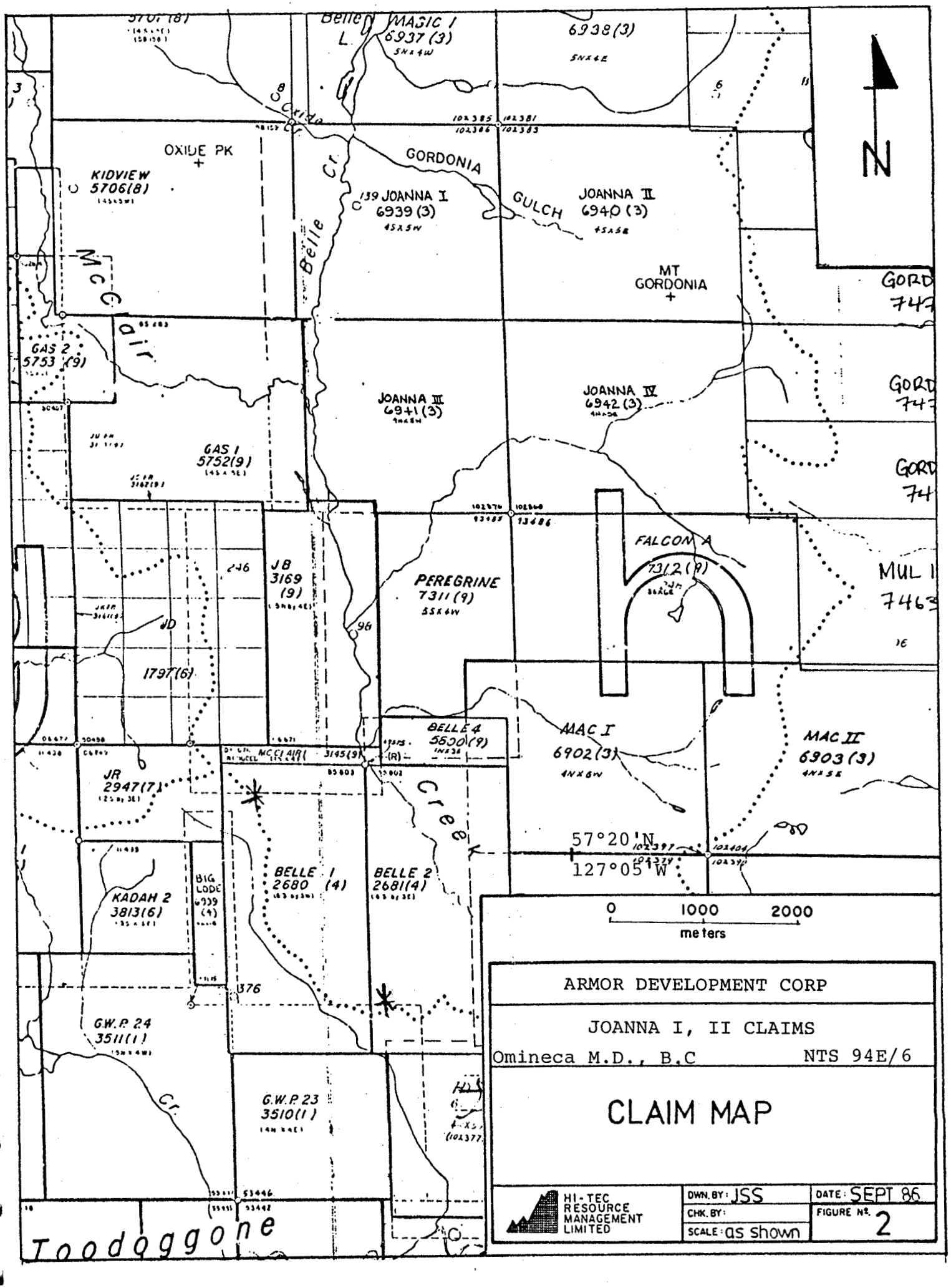
HI-TEC RESOURCE MANAGEMENT LIMITED

DWN BY J.W | DATE

CHK BY

SCALE As shown

FIGURE No. 1


MAGIC I
6937 (3)
5NX4W
6938(3)
5NX4E
OXIDE PK
KIDVIEW
5706(8)
GORDONIA
GULCH
139 JOANNA I
6939 (3)
45X5W
JOANNA II
6940 (3)
45X5E
MT
GORDONIA
McC
Belle Cr.
GAS 2
5753 (9)
GAS 1
5752(9)
45X5E
JOANNA III
6941(3)
4N4SW
JOANNA IV
6942 (3)
4N4SE
JB
3169
(9)
5NX4E
PEREGRINE
7311 (9)
5SX4W
FALCON A
7312 (9)
MUL I
7463
1797(6)
JD
96
246
BELLE 4
5800(9)
1NE3E
MAC I
6902(3)
4NX6W
MAC II
6903(3)
4NX5E
JR
2947(7)
BELLE 1
2680 (4)
BELLE 2
2681(4)
Creek
57°20'N
127°05'W
KADAH 2
3813(6)
BIG
LODE
6939
(4)
376
G.W.P. 24
3511(1)
G.W.P 23
3510(1)
Cr.
Toodoggone
0
1000
2000
meters
ARMOR DEVELOPMENT CORP
JOANNA I, II CLAIMS
Omineca M.D., B.C
NTS 94E/6
CLAIM MAP
HI-TEC
RESOURCE
MANAGEMENT
LIMITED
DWN. BY: JSS
CHK. BY:
SCALE: as shown
DATE: SEPT 86
FIGURE No. 2

actively explored by Sumitomo, Umex and Texas Gulf Sulphur between 1963 and 1967, and in 1968 for porphyry copper and molybdenum deposits by Kennco Exploration (Western) Ltd., Cominco Ltd., and Cordilleran Engineering Ltd.

Kennco Exploration (Western) Ltd. recognized the precious metal potential of the area, staked the Lawyers and Chapelle claims and explored them until 1975. The Chapelle property was eventually optioned to Conwest Explorations Ltd. and then to DuPont of Canada Exploration Ltd. This led to the discovery of the Baker Deposit. The Baker mine was placed into production with indicated reserves of 70,000 tons with grades of 0.9 oz/t Au and 19.0 oz/t Ag in the "A" vein. The Baker deposit was mined out in 1983. The Lawyers property is presently held under option to Serem Inc. Surface and underground drilling has defined a deposit containing 1,000,000 tons grading 0.21 oz/T Au and 7.1 oz/T Ag (Schroeter, 1985).

Energex Minerals Ltd., Golden Rule Resources Ltd., and the Lacana Mining Corporation all had active exploration programs in the Toodoggone map area during the summer of 1986.

REGIONAL GEOLOGY AND MINERALIZATION

The Toodoggone gold camp is a 15 to 20 kilometer wide belt of volcanic sedimentary and intrusive rocks extending northwesterly from Thutade Lake to the Stikine River, a distance of more than 100 kilometers. The oldest rocks in the area belong to the Asitka Group of Permian age. This group consists of cherts, argillites, limestone and greenstones. These rocks are overlain by the Takla Group which consists of intermediate flows and pyroclastics of Upper Triassic age. The Takla Group is characterized by abundant flows of augite andesite, basalt, feldspar, porphyritic feldspar andesite and their volcaniclastic sedimentary equivalents.

The volcanic rocks lying stratigraphically above the Takla Group have been classified under two headings: i) the Toodoggone Group and ii) the Hazelton Group. The Toodoggone Group is of Lower Jurassic age and is equivalent to the base of the Hazelton Group (Panteleyev, 1984). The Toodoggone volcanics consist predominantly of subaerial dacite, latite, trachyte and rhyolite pyroclastic rocks more than 500 meters in thickness, which unconformably overlie the Takla Group. The majority of epithermal precious metal occurrences in the area are associated with the Toodoggone volcanic rocks. The Baker deposit, however, occurs in Takla volcanic rocks.

The Toodoggone volcanics are bordered on the east by, and are in fault contact with, the Hazelton Group rocks consisting of intermediate volcanic conglomerate, breccia, lahar and abundant pink feldspar porphyry dikes and sills. These rocks range in age from Lower Jurassic to Upper Jurassic.

In addition to the intrusive dikes and sills noted within the Toodoggone and Hazelton Groups, acid to intermediate and alkaline stocks and plugs also occur in the Toodoggone area.

The Toodoggone camp exhibits at least four types of precious metal mineralization, the most common of which is epithermal in origin. The epithermal deposits occur as massive quartz veins such as at the Baker mine, or as silicified zones and amethystine breccia zones such as at the Lawyers deposit. These deposits are generally proximal to major northwest faults and areassociated with siliceous volcanic centres, exhalative vents and zones of alteration within the Toodoggone volcanics. Quartz, barite and carbonate are the chief gangue minerals. Vein minerals are acanthite, pyrite, electrum, chalcopyrite, native gold, sphalerite and galena. Grades range from 0.1 to 1.0 oz/T Au and 1.0 to 20.0 oz/T Ag.

PROPERTY GEOLOGY AND MINERALIZATION

The Joanna I and II claims are situated in an area of varied geology (Gabriesle et al., 1976). The southeast part of Joanna II (Mt. Gordonia) is underlain by north-northwest striking Hazelton Group flows and pyroclastic rocks. A west-northwest trending fault along Gordonia Gulch terminates this sequence and massive basic volcanics of the Takla Group occur north of this fault. Gently dipping Toodoggone volcanics underlie the area west of Belle Creek on the Joanna I claim.

Prospecting the Joanna II claim in 1986 substantiated the work done in 1973 by Alakon Metals Ltd. (McKelvie, 1972) in which pyrite, specular hematite and copper staining in numerous quartz veinlets were found in creeks draining cirques on the ~~west~~ north side of Mt. Gordonia. Grab samples from this area assayed up to 1700 ppb gold, 25.2 ppm silver and 10,170 ppm copper. the area south of the Joanna I and II claims show varied styles of mineralization, including malachite altered quartz veinlets and silicified zones, specular hematite and gossans.

Northwest of the Joanna I and II claims, Takla Group rocks show chalcopyrite in quartz-carbonate veinlets in fractured volcanics and chalcopyrite, galena, sphalerite and pyrite in bleached, silicified and carbonate altered volcanics reflected by prominent gossans. Two chip samples over two meter widths of a quartz vein and a rust-carbonate altered zone, both containing disseminated sulphides returned precious metal values of 16 to 30 ppm silver. Apparently no gold assays were done at that time (Burgoyne, 1974).

GEOCHEMISTRY

Sampling and Analytical Procedures

A two and one half day program of soil sampling and prospecting was carried out on the Joanna I and II claims during the period of August 14 to 17, 1986. The work was conducted by O. Paeseler and T. Archibald under the supervision of J. Steel of Hi-Tec Resource Management Limited. A base camp was located on the Sturdee Valley airstrip approximately 50 kilometers south of the property which was accessed daily by helicopter.

A total of 99 soil samples and 5 rock samples were collected. The soil samples were taken from the "B" soil horizon and were collected at 50 meter intervals on east-west grid lines on the Joanna I claim and north-south grid lines on the Joanna II claim. Soil samples were taken from depths of between 15 and 40 centimeters, placed in numbered kraft paper bags and shipped to Min-En Laboratories in North Vancouver, B.C. for analysis.

Soil samples were dried at approximately 90^{o}C and then sieved to minus 80 mesh. Rock samples were crushed and pulverized. A 1.0 gram sample was then digested with perchloric acid. Samples were diluted to standard volume after cooling, and the solutions were analyzed for Ag, As, Ba, Cu, Pb, and Zn by atomic absorption. Gold analyses were done using aqua-regia digestion followed by atomic absorption.

Discussion of Results

The analytical results are listed in Appendix I and contoured data are shown in Figures 3a to 3d. Threshold and anomalous values for each element were calculated using the log-normal frequency method and are 25 ppb, 1.1 ppm, 1.0 ppm and 165 ppm for gold, silver, arsenic and barium respectively and 35 ppm, 54 ppm, and 140 ppm for copper, lead and zinc.

The 1986 exploration program was set up to explore the southern continuation of the gold and silver anomalies delineated in 1985, and to determine the geochemical response of the fault which occurs in the west-central section of the Joanna II claim (Diakow et al., 1985). The 1986 sample locations are shown on Figure 3a which also show the 1985 sample locations. Both are plotted for completeness in interpretation.

Gold and silver anomalies occur predominantly on the Joanna I claim (Bell, 1985) and only a limited extension of these south of the 1985 work was delineated. Fill-in sampling of line 8+00N east of 20+00E did extend the spot highs seen there into one anomaly covering an area of 300 to 400 meters with a possible maximum width of 200 meters. Only spot highs were seen east of the common boundary between the two claims.

Anomalous arsenic is seen to cross three grid lines between 4+00N and 8+00N at 22+00E and anomalous barium occurs over a 500 meter by 250 meter area on the Joanna II claim. The anomaly is open to extension both north and south. Copper, lead and zinc are seen only as spot highs throughout the area covered by the 1986 sampling program.

CONCLUSIONS

The 1986 exploration program has delineated several geochemically anomalous areas which warrant future work. The two areas of interest include the gold anomaly between 4+00N and 10+00N at 21+00E and the barium anomaly between 4+00N and 7+00N at 26+00E to 30+00E on the Joanna II claim.

RECOMMENDATIONS

A follow-up exploration program is recommended for the Joanna I and II claims. During this program, the existing grid should be extended to cover the rest of the property and fill-in sampling should be done in the areas of the gold anomaly and the barium anomaly. The area surrounding the mineralized rock samples collected during the 1986 program should be mapped in detail, followed by hand trenching and sampling. In addition, VLF-EM and magnetometer surveys should be conducted over the entire property.

Respectfully submitted,

J. Paul Sabourin

HI-TEC RESOURCE MANAGEMENT LTD.

BIBLIOGRAPHY

Bell, J.M. 1985. 1985 Geochemical Report on the Joanna I and II claims. Armor Development Corp., Private Report.

Burgoyne, Alfred, A. 1974. Geology, Geochemical Soil Survey, and EM-16 Survey on GORD 1-40 Mineral Claims, Omineca Mining Division, B.C. Ministry of Energy, Mines and Petroleum Resources (BCMEMPR) Assessment Report 5194.

Carter, N.C. 1972. Toodoggone River Area and Chappelle, Geology, Exploration and Mining in British Columbia 1971, pp. 63-70.

_____. 1974. Lawyers, Geology Exploration and Mining in British Columbia 1973, pp. 458-461.

Diakow, L.J. 1984. Geology between Toodoggone and Chukachida Rivers (94E), BCMEMPR Geological Fieldwork 1983, Paper 1984-1, pp. 139-145.

Diakow, L.J., Panteleyev, A. and Schroeter, T.G. 1985. Geology of the Toodoggone River Area, NTS 94E, British Columbia Department of Mines Preliminary Map 61.

Gabrielse, H., Dodds, C.J. and Mansy, J.L. 1976. Geology of the Toodoggone River (94E) Map-Area, GCS Open File 306.

Harron, G.A. 1981. Geological and Geochemical Report on the Air 1 and 2 Claims, Omineca Mining Division, BCMEMPR Assessment Report 9282.

McKelvie, D.L. 1972. Geophysical Report on the ED 1-14, EHL 1-12, Belle 1-42 Mineral Claims, BCMEMPR Assessment Report 2506.

Panteleyev, A. 1983. Geology between Toodoggone and Sturdee Rivers, BCMEMPR Geological Fieldwork 1982, Paper 1983-1, pp. 142-148.

_____. 1984. Stratigraphic Position of Toodoggone volcanics, BCMEMPR, Geological Fieldwork 1983, Paper 1984-1, pp. 136-138.

Schroeter, T.G. 1981. Toodoggone River, BCMEMPR, Geological Fieldwork 1980, Paper 1982-1, pp. 124-131.

_____. 1982. Toodoggone River, BCMEMPR Geological Fieldwork, 1980, Paper 1981-1, pp. 124-131.

_____. 1983. Toodoggone River, BCMEMPR Geological Fieldwork, 1982, Paper 1983-1, pp. 125-133.

Schroeter, T.G. 1984. Toodoggone River, BCMEMPR Geological Fieldwork, 1983, Paper 1984-1 pp. 134-135.

_____. 1985. Toodoggone River, BCMEMPR Geological Fieldwork, 1984, Paper 1985-1, pp. 291-297.

APPENDIX I

Statement of Costs

COST STATEMENT

Armor Development Corp.
Joanna 1 & 2 Claims
Geochemical Exploration Program

Salaries (August 15-16)		
J. Steel	1.0 days @ $250.00/day	$ 250.00
T. Archibald	2.0 days @ $210.00/day	420.00
O. Paeseler	2.0 days @ $210.00/day	420.00
Mobilization/Demobilization		740.31
Geochemistry		
99 soil-silt samples		1,024.35
4 rock samples		60.00
Freight		27.75
Domicile		150.00
Camp Equipment & Fuel		40.00
Fixed Wing Support		162.04
Helicopter Support		974.40
Project Management		355.85
Report		250.00
	TOTAL:	$5,000.00

APPENDIX II

Statement of Qualifications

STATEMENT OF QUALIFICATIONS

I, JAMES S. STEEL of #1608-1005 Jervis Street, Vancouver, British Columbia hereby certify:

1. I am a graduate of the University of British Columbia (1984) and hold a B.Sc. degree in geology.

2. I am presently employed as a project geologist with Hi-Tec Resource Management Ltd. of #1590 - 609 Granville Street, Vancouver, British Columbia.

3. I have been employed in my profession by various mining companies for the past two years.

4. The information contained in this report was obtained from supervision of the field work program conducted by Hi-Tec Resource Management Ltd. in 1986.

James S. Steel,
Project Geologist

DATED at Vancouver, British Columbia this 23rd day of October, 1986.

APPENDIX III

Analytical Results

COMPANY: HI TEC RESOURCE MANAGEMENT — MIN-EN LABS ICP REPORT — (ACT:6E027) PAGE 1 OF 1

PROJECT NO: JOANNA I & II — 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 — FILE NO: 6-655S/P1+2

ATTENTION: J.STEEL/P.SORBARA — (604)980-5814 OR (604)988-4524 * TYPE SOIL GEOCHEM * DATE:AUGUST 26, 1986

(VALUES IN PPM)	AG	AS	BA	CU	PB	ZN	AU-PPB
A-86 8N 21+00E	.5	2	51	16	31	75	40
A-86 8N 21+50E	.4	15	61	5	31	61	50
A-86 8N 22+00E	.6	1	58	12	12	62	5
A-86 8N 22+50E	.4	1	58	4	10	53	10
A-86 8N 23+00E	.4	1	53	4	13	44	10
A-86 8N 23+50E	.4	1	305	19	17	64	5
A-86 6N 12+00E	1.7	1	412	51	33	141	20
A-86 6N 12+50E	.9	4	98	12	26	95	10
A-86 6N 13+00E	.9	8	108	22	27	114	5
A-86 6N 13+50E	.6	19	76	16	28	92	25
A-86 6N 14+00E	.9	8	68	12	26	78	30
A-86 6N 14+50E	1.0	1	95	11	38	80	5
A-86 6N 15+00E	1.0	6	91	10	38	98	5
A-86 6N 15+50E	.5	1	69	11	33	80	5
A-86 6N 16+00E	.7	1	64	10	36	81	3
A-86 6N 16+50E	.7	8	102	9	28	48	5
A-86 6N 17+00E	1.0	11	73	17	29	89	5
A-86 6N 17+50E	.9	16	65	14	29	80	20
A-86 6N 18+00E	1.2	25	63	17	34	72	5
A-86 6N 18+50E	.9	26	61	12	34	75	5
A-86 6N 19+00E	.5	22	65	8	28	65	5
A-86 6N 19+50E	.5	8	65	9	31	44	10
A-86 6N 20+00E	.8	21	54	8	19	51	5
A-86 6N 20+50E	.9	7	55	10	20	47	5
A-86 6N 21+00E	1.9	7	83	13	37	70	40
A-86 6N 21+50E	.4	1	93	8	24	41	10
A-86 6N 22+00E	1.0	17	83	15	36	76	3
A-86 6N 22+50E	1.1	5	221	30	55	124	5
A-86 6N 23+00E	.7	21	48	16	37	75	30
A-86 6N 23+50E	.7	6	106	20	82	193	5
A-86 6N 24+00E	1.3	1	74	31	15	94	50
A-86 6N 24+50E	.6	9	69	41	17	108	5
A-86 6N25+00E40M	.5	13	180	52	44	118	5
A-86 6N 25+50E	.7	4	71	10	18	81	3
A-86 6N 26+00E	.6	1	71	14	25	60	5
A-86 4N 20+00E	.9	6	77	20	13	109	10
A-86 4N 20+50E	.9	14	96	16	19	87	10
A-86 4N 21+00E	.7	10	92	17	22	73	5
A-86 4N 21+50E	1.2	14	96	14	26	83	5
A-86 4N 22+00E	.8	1	68	9	19	47	10
A-86 4N 22+50E	1.1	28	79	21	39	101	20
A-86 4N 23+00E	.8	17	93	13	47	88	5
A-86 4N 23+50E	.8	7	106	12	36	80	3
A-86 4N 24+00E	.8	18	91	11	22	65	5
A-86 4N 24+50E	1.0	22	104	20	37	76	5
A-86 4N 25+00E	.9	19	135	15	53	83	5
A-86 4N 25+50E	.3	1	107	7	25	48	3
A-86 4N26+00E40M	1.2	8	256	26	11	104	10
A-86 26E 4+50N	.9	5	301	29	32	111	5
A-86 26E 5+00N	1.6	7	113	18	37	75	5
A-86 26E 5+50N	1.6	7	167	158	11	100	5
A-86 26E 6+50N	1.0	1	77	7	5	60	5
A-86 26E 7+00N	1.0	1	59	7	5	55	3
A-86 26E 7+50N	.9	15	183	23	39	118	10
A-86 27E3+50N40M	3.1	5	533	72	56	205	15
A-86 27E 4+00N	5.8	3	377	91	34	131	20
A-86 27E 4+50N	1.9	16	398	484	42	233	20
A-86 27E 5+00N	.8	1	273	48	43	86	5
A-86 27E 5+50N	.7	1	316	27	28	49	5
A-86 27E 6+00N	1.0	1	85	40	26	92	30

COMPANY: HI TEC RESOURCE MANAGEMENT — MIN-EN LABS ICP REPORT — (ACT:GE027) PAGE 1 OF 1
PROJECT NO: JOANNA I & II — 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 — FILE NO: 6-655S/P3+4
ATTENTION: J.STEEL/P.SORBARA — (604)980-5814 OR (604)988-4524 — * TYPE SOIL GEOCHEM * — DATE:AUGUST 26, 1986

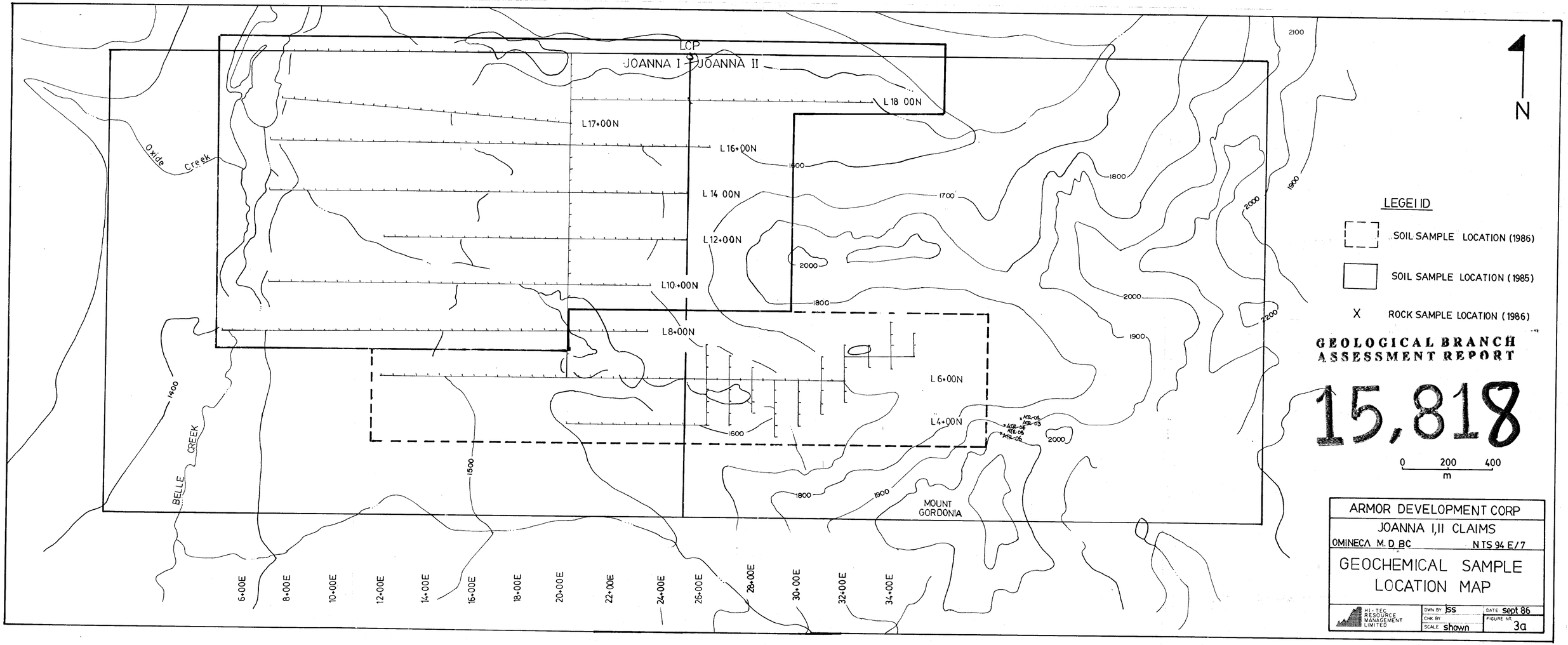
(VALUES IN PPM)	AG	AS	BA	CU	PB	ZN	AU-PPB
A-86 27E 6+50N	1.1	12	90	17	40	95	30
A-86 27E 7+00N	.6	7	74	6	16	52	5
A-86 28E 4+50N	1.2	6	65	16	15	59	5
A-86 28E 5+00N	.8	1	626	45	32	83	5
A-86 28E 5+50N	.8	1	148	13	8	58	3
A-86 28E 6+00N	.9	1	367	28	23	76	10
A-86 28E 6+50N	.8	9	257	46	31	88	5
A-86 29E3+50N40M	.7	1	411	51	58	112	5
A-86 29E 4+00N	.4	1	681	31	17	46	5
A-86 29E 4+50N	.7	6	174	15	20	65	20
A-86 29E 5+50N	.9	1	332	37	25	85	5
A-86 30E 4+00N	.7	14	189	71	33	89	30
A-86 30E 4+50N	1.6	1	304	30	24	65	5
A-86 30E 5+00N	.8	8	88	10	20	59	5
A-86 30E 5+50N	1.1	1	815	49	40	113	3
A-86 30E 6+00N	.5	1	155	8	26	62	5
A-86 31E 4+50N	.7	2	110	14	15	46	10
A-86 31E 5+00N	.6	1	116	8	13	44	5
A-86 31E 5+50N	.7	2	91	21	26	66	5
A-86 31E 6+00N	.8	1	81	10	27	62	5
A-86 31E 6+50N	.7	1	87	8	3	40	20
A-86 31E 7+00N	.6	1	383	19	23	79	5
A-86 32E 5+00N	.8	5	120	15	32	61	15
A-86 32E 5+50N	.6	1	92	17	22	62	5
A-86 32E 6+00N	1.0	1	83	9	18	62	10
A-86 32E 6+50N	.6	1	76	8	28	47	5
A-86 32E 7+00N	.6	1	49	6	18	55	10
A-86 32E 7+50N	.5	11	79	12	34	66	40
A-86 33E 6+50N	.5	1	74	7	15	61	5
A-86 33E 7+00N	.6	1	71	11	24	82	5
A-86 33E7+50N40M	.2	1	97	6	101	51	5
A-86 34E 6+50N	.3	1	130	8	15	38	5
A-86 34E 7+00N	.6	1	298	19	17	77	10
A-86 34E 7+50N	.5	1	72	8	22	52	15
A-86 34E 8+00N	.4	1	51	13	32	60	5
A-86 34E 8+50N	.4	7	73	15	30	63	10
A-86 35E 7+00N	1.1	1	95	11	17	42	5
A-86 35E 7+50N	.3	1	133	6	10	54	5
A-86 35E 8+00N	.3	1	111	5	10	34	10

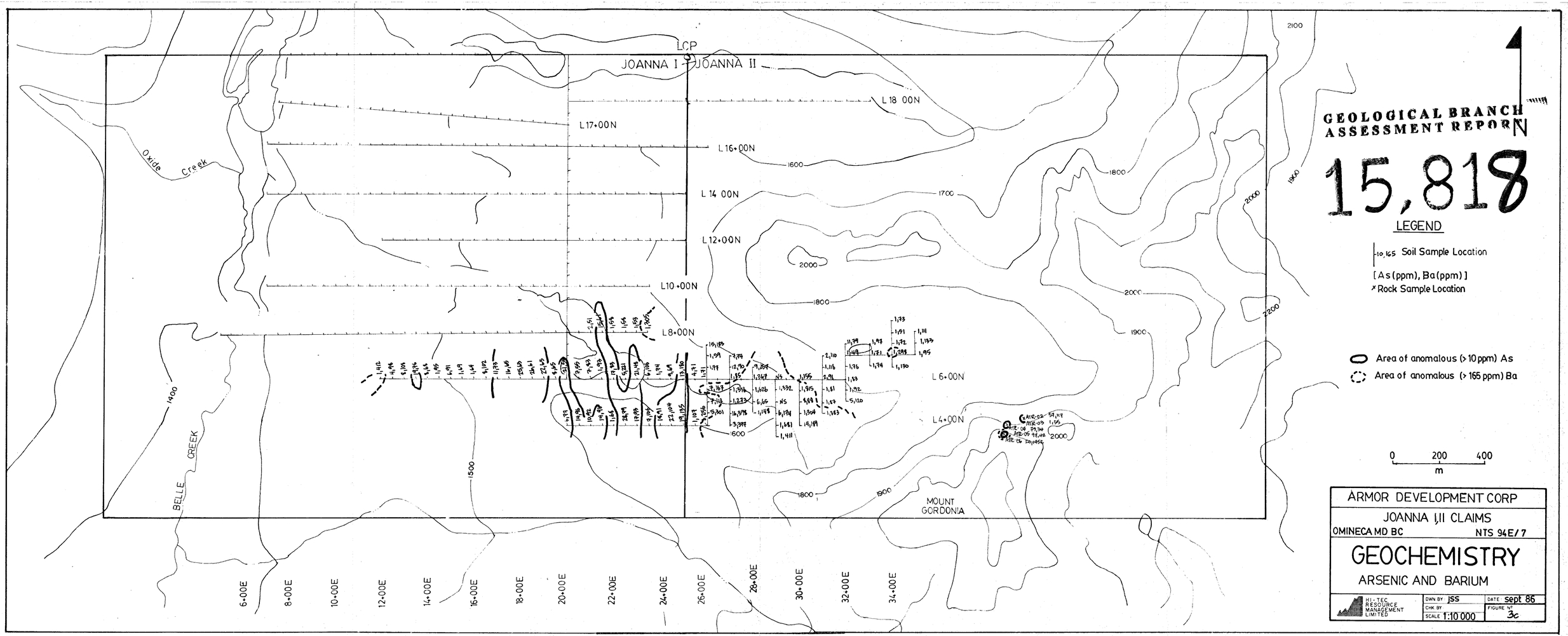
COMPANY: HI TEC RESOURCE MANAGEMENT | MIN-EN LABS ICP REPORT | (ACT:GE027) PAGE 1 OF 1

PROJECT NO: JOANNA I & II | 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 | FILE NO: 6-655R

ATTENTION: J.STEEL/P.SORBARA | (604)980-5814 OR (604)988-4524 | * TYPE ROCK GEOCHEM * | DATE:AUGUST 26, 1986

(VALUES IN PPM)	AG	AS	BA	CU	PB	ZN	AU-PPB
AT-86-R-02	6.8	57	117	1239	46	32	50
AT-86-R-03	.3	1	55	6	14	27	5
AT-86-R-04	13.0	79	34	4915	131	20	1700
AT-86-R-05	25.2	97	42	10170	103	146	640
AT-86-R-06	1.2	20	1952	3829	42	44	10


LCP
JOANNA I
JOANNA II
L 18 00N
L17+00N
L16+00N
L 14 00N
L12+00N
L10+00N
L8+00N
L 6+00N
L4+00N
Oxide Creek
BELLE CREEK
MOUNT GORDONIA
2100
2000
1900
1800
1700
1600
1500
1400
6+00E
8+00E
10+00E
12+00E
14+00E
16+00E
18+00E
20+00E
22+00E
24+00E
26+00E
28+00E
30+00E
32+00E
34+00E
N
LEGEND
SOIL SAMPLE LOCATION (1986)
SOIL SAMPLE LOCATION (1985)
X ROCK SAMPLE LOCATION (1986)
GEOLOGICAL BRANCH
ASSESSMENT REPORT
15,818
0 200 400
m
ARMOR DEVELOPMENT CORP
JOANNA I,II CLAIMS
OMINECA M. D. BC NTS 94 E/7
GEOCHEMICAL SAMPLE
LOCATION MAP
HI-TEC RESOURCE MANAGEMENT LIMITED
DWN BY jss
CHK BY
SCALE shown
DATE sept 86
FIGURE NR. 3a



GEOLOGICAL BRANCH
ASSESSMENT REPORT

15,818

LEGEND

10,165 Soil Sample Location
[As(ppm), Ba(ppm)]
× Rock Sample Location

Area of anomalous (> 10 ppm) As
Area of anomalous (> 165 ppm) Ba

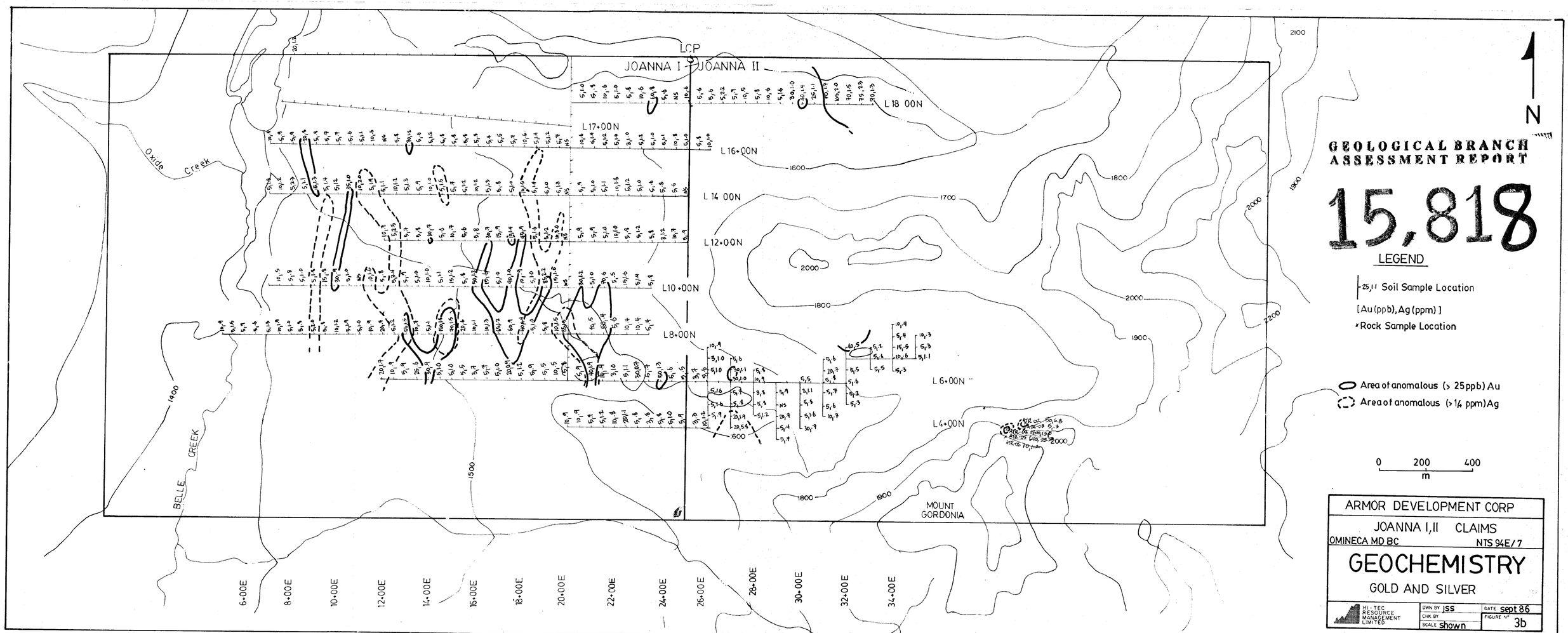
0 200 400
m

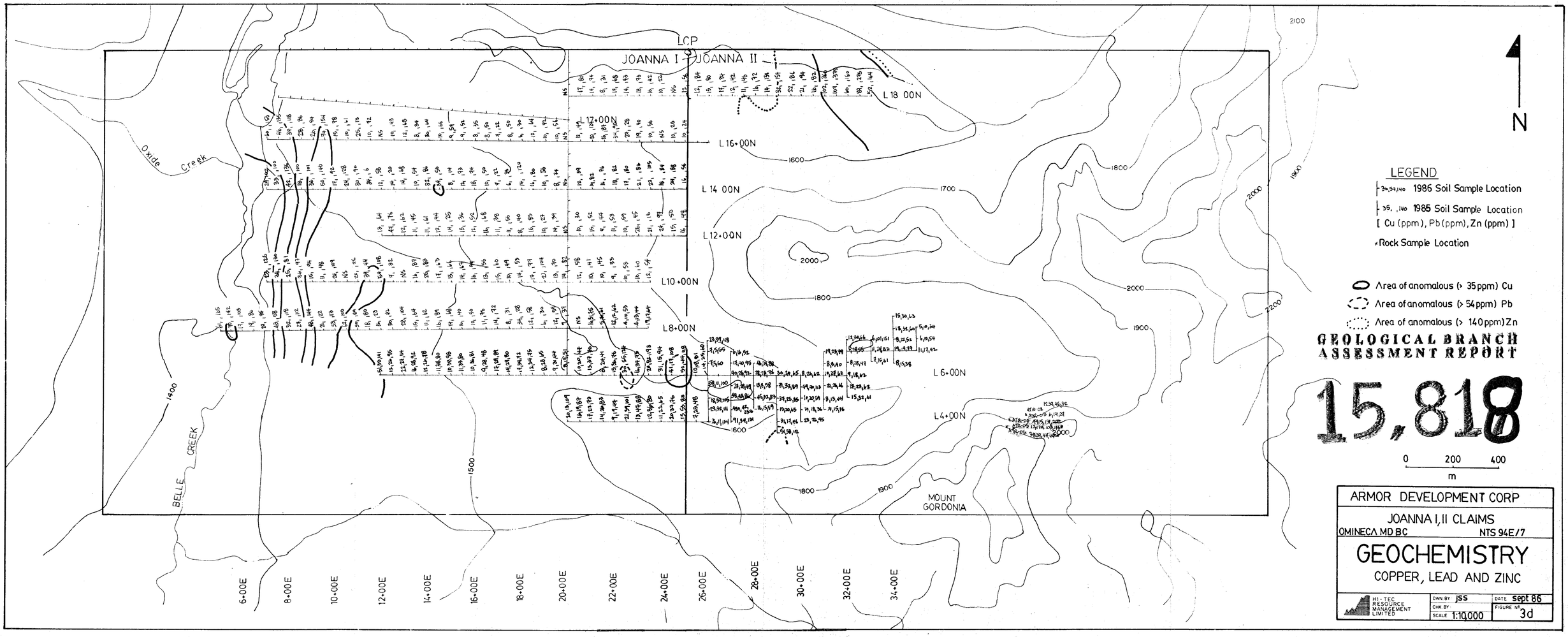
ARMOR DEVELOPMENT CORP
JOANNA I,II CLAIMS
OMINECA MD BC NTS 94E/7

GEOCHEMISTRY
ARSENIC AND BARIUM

HI-TEC RESOURCE MANAGEMENT LIMITED

DWN BY JSS
CHK BY
SCALE 1:10 000
DATE sept 86
FIGURE № 3c


LCP
JOANNA I
JOANNA II
L 18 00N
L17+00N
L16+00N
L 14 00N
L12+00N
L10+00N
L8+00N
L 6+00N
L4+00N
Oxide Creek
BELLE CREEK
MOUNT GORDONIA
1400
1500
1600
1700
1800
1900
2000
2100
2200
6+00E
8+00E
10+00E
12+00E
14+00E
16+00E
18+00E
20+00E
22+00E
24+00E
26+00E
28+00E
30+00E
32+00E
34+00E
N
GEOLOGICAL BRANCH
ASSESSMENT REPORT
15,818
LEGEND
25,1.1 Soil Sample Location
[Au (ppb), Ag (ppm)]
Rock Sample Location
Area of anomalous (> 25ppb) Au
Area of anomalous (> 1/4 ppm) Ag
0 200 400
m
ARMOR DEVELOPMENT CORP
JOANNA I,II CLAIMS
OMINECA MD BC
NTS 94E/7
GEOCHEMISTRY
GOLD AND SILVER
HI-TEC RESOURCE MANAGEMENT LIMITED
DWN BY JSS
CHK BY
SCALE shown
DATE sept 86
FIGURE No 3b


LCP
JOANNA I
JOANNA II
L 18 00N
L 17 00N
L 16 00N
L 14 00N
L 12 00N
L 10 00N
L 8 00N
L 6 00N
L 4 00N
Oxide Creek
BELLE CREEK
MOUNT GORDONIA
6+00E
8+00E
10+00E
12+00E
14+00E
16+00E
18+00E
20+00E
22+00E
24+00E
26+00E
28+00E
30+00E
32+00E
34+00E
1400
1500
1600
1700
1800
1900
2000
2100
2200
N
LEGEND
1986 Soil Sample Location
1985 Soil Sample Location
[Cu (ppm), Pb (ppm), Zn (ppm)]
Rock Sample Location
Area of anomalous (> 35ppm) Cu
Area of anomalous (> 54ppm) Pb
Area of anomalous (> 140ppm) Zn
GEOLOGICAL BRANCH
ASSESSMENT REPORT
15,818
0 200 400
m
ARMOR DEVELOPMENT CORP
JOANNA I, II CLAIMS
OMINECA MD BC NTS 94E/7
GEOCHEMISTRY
COPPER, LEAD AND ZINC
HI-TEC RESOURCE MANAGEMENT LIMITED
DWN BY JSS
DATE sept 86
CHK BY
SCALE 1:10,000
FIGURE NO. 3d