

MAP NO.: ASSESSMENT REPORT X

DOCUMENT NO: 092983

PROSPECTUS

MINING DISTRICT: Dawson

115 0 /3

CONFIDENTIAL X

TYPE OF WORK: Geochemical Survey

OPEN FILE

Rock and Soil

REPORT FILED UNDER: Sparkling Minerals Incorporated.

DATE PERFORMED: June 25 to July 5, 1991  
October 5 to 10, 1991

DATE FILED: Nov 6, 1991

LOCATION: LAT.: 63°03'N  
LONG.: 139°14'W

AREA: Thistle Mountain Area  
VALUE \$: 7,387.45

CLAIM NAME & NO.: VIV 1-9, YB31169 - YB31177, IAN 1-7, YB31178 - YB31184

WORK DONE BY: Farrell J. Anderson

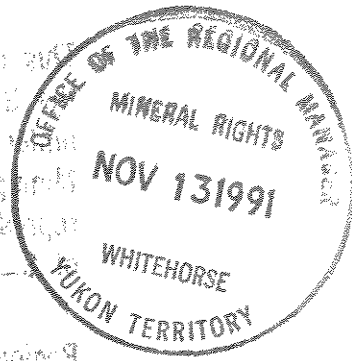
WORK DONE FOR: Sparkling Minerals Incorporated.

DATE TO GOOD STANDING:

REMARKS: # 115 0

A reconnaissance geochemical survey consisting of 7 rock samples and 135 soil samples was conducted on the property. One rock returned 414 ppb Au, 2.2 ppm Ag and 0.89% Pb. The soil samples outlined individual anomalous zones of Zn, Cu and Pb mineralization. The author suggests that these zones represent a possible mineralization aureole of a nearby buried intrusion.

TO: [illegible]  
FROM: [illegible]  
SUBJECT: [illegible]



Regional Manager  
Office of the Regional Manager  
Whitehorse, Yukon Territory

GEOCHEMICAL REPORT  
ON THE  
VIV 1-9 AND IAN 1-7 CLAIMS  
NTS 115 0 3  
LATITUDE 63°03'N  
LONGITUDE 139°14'W  
IN THE  
DAWSON MINING DISTRICT  
YUKON TERRITORY  
PREPARED FOR  
SPARKLING MINERALS INCORPORATED  
BY FARRELL J. ANDERSEN, B.Sc.  
JUNE 25 TO JULY 5, 1991  
OCTOBER 5-10, 1991

092983



GEOCHEMICAL REPORT  
VIV-IAN GROUP, DAWSON MINING DISTRICT  
YUKON TERRITORY

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## INTRODUCTION

This report was prepared for Sparkling Minerals Incorporated by Farrell Andersen from October 5 to 10, 1991. The work contained within this report was supervised by Farrell Andersen and conducted with the assistance of Brian Prokopetz from June 25 to July 5, 1991.

## PROPERTY OWNERSHIP (MAP A)

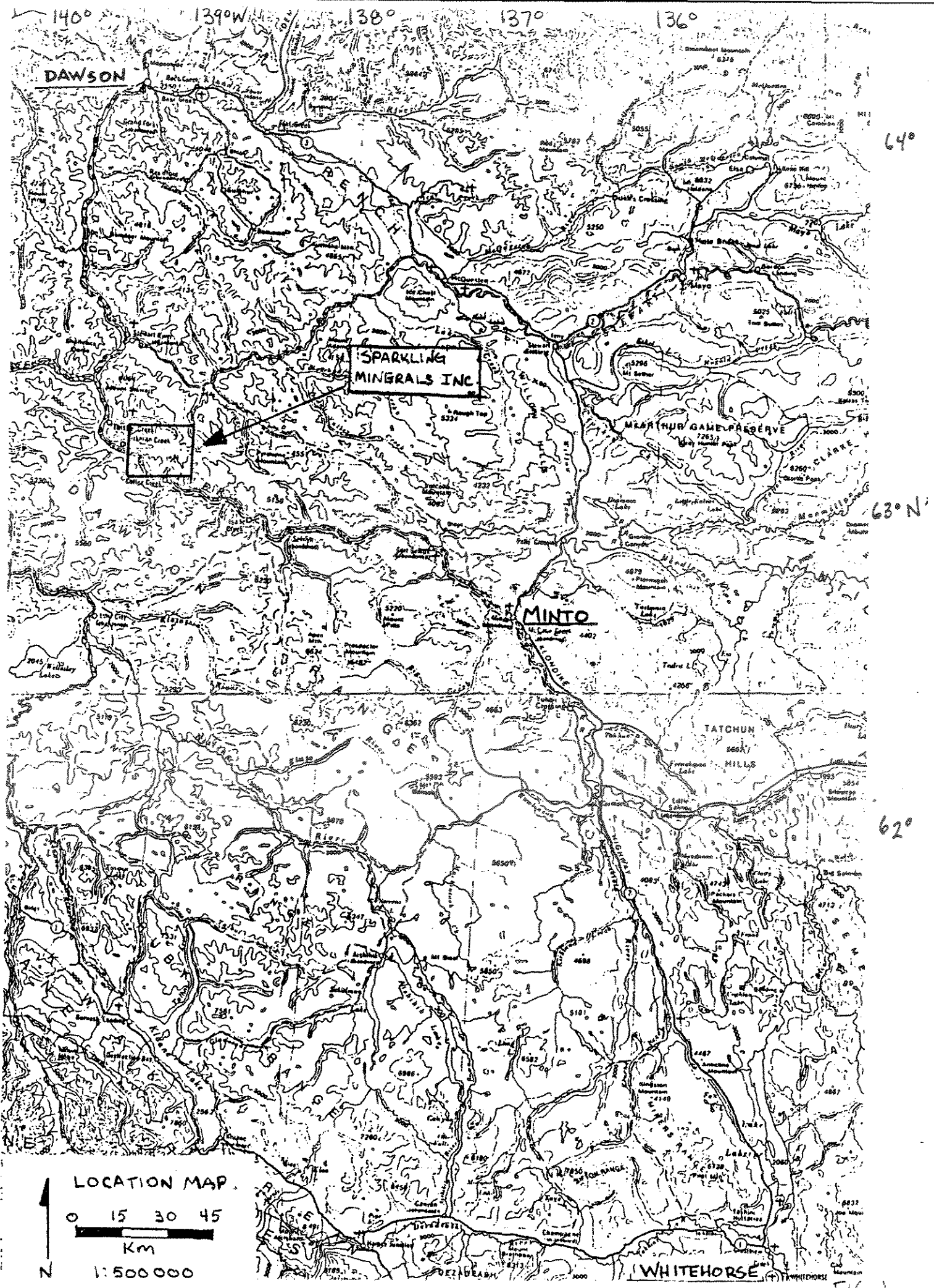
The VIV-IAN property consists of 17 full claims and three fractional claims. VIV 1-9 and IAN 1-7 were staked in 1990 around the Big Red claim held in good standing by a private individual. In 1991 the VIV 10 claim was staked overtop the Big Red when that claim elapsed. Following is a list of claim data current as of 10/10/91.

<u>CLAIM NUMBER</u>	<u>CLAIM NAMES</u>	<u>REGISTERED OWNER</u>	<u>ANNIVERSARY DATE</u>
YB31169-YB31177	VIV 1-9	SPARKLING MINERALS INCORPORATED	JULY 12, 1995
YB31178-YB31184	IAN 1-7	SPARKLING MINERALS INCORPORATED	JULY 12, 1995

## LIST OF PERSONNEL

The following personnel conducted the work compiled in this report from June 25 to July 5, 1991.

Farrell Andersen	801-1445 West 14 Ave. Vancouver, BC	Geologist
Brian Prokopetz	c/o Bag 2780 Whitehorse, Yukon	Prospector



140° 139°W 138° 137° 136°

**DAWSON**

**SPARKLING MINERALS INC.**

**MINTO**

**TATCHUN HILLS**

**WHITEHORSE**

64°

63° N

62°

LOCATION MAP

0 15 30 45

Km

N

1:500000

## LOCATION AND ACCESS

The VIV-IAN claim block is located in the Dawson Mining District on NTS mapsheet 115 03 (1:50,000) at latitude 63°03' N, longitude 139°14' W. The claims are situated around upper Blueberry Creek, a left limit tributary of Thistle Creek. Thistle Creek flows west into the Yukon River 30 km upstream of the Stewart-Yukon river convergence. Access onto the property was obtained by riverboat from Ballarat Creek down the Yukon River to Thistle, then by all terrain vehicle to the mouth of Blueberry Creek.

## PHYSIOGRAPHY

The project is geographically located in the Dawson Range, a series of interconnected ridges having a rolling hills appearance. Thistle Mountain forms the western margin of a divide for creeks draining north into the Stewart River and south and east into the Yukon River. Elevations on the property range from 650 m above sea level in Blueberry Creek, to 1100 m in the northeast corner. Thistle Mountain, at 1503 m, is the highest point in the region.

The area has a continental climate averaging 31 cm of precipitation per year, mostly in the summer months. The lower slopes are snow free from late April to late September, and the creeks are ice free from June to October. Treeline is approximately 1219 m above sea level. Vegetation is typical of northern boreal forest. North slopes are covered with low vegetation overtop permanently frozen soils. South slopes are densely vegetated and underlain by surface thawed soils.

## GEOMORPHOLOGY

The Dawson Range is part of the Yukon Plateau, a peneplain uplifted in the Tertiary period and incised by stream run off into V-shaped valleys. Slopes average 25° but can be up to 45°. Valleys gradually narrow upstream as grade steepens. Blueberry Creek is a mature meandering stream with a moderate valley width averaging 50 metres. Stream gravels exposed are recent flood deposits of locally derived bedrock. Bedrock exposure in the streams is decomposed. The lack of continental glaciation has enabled deep weathering of bedrock to occur to the point of complete erosion for the less competent rock types. Outcrop exposure does not comprise 1% of the property. Soil is well developed on the property, with minor frozen patches along the north facing slopes.

## GEOLOGY

The property is underlain by quartzose schists and gneisses of the late Proterozoic Yukon Group. Locally, the Yukon Group is a series of folded clastic sediments intercalated with volcanics and metamorphosed to moderate grade schists.

The area has never been mapped in detail. Outcrop on the property was scarce and mapping was restricted to scattered felsenmeer and talus. Dr. Tempelman-Kluit published a paper and 1:250,000 scale geological map of the Snag mapsheet located south of the property (GSC Paper 73-41, Templeman-Kluit, 1973). His map has regional east trending isoclinal folds which can be extrapolated into the project area. The general trend of rock units in the region is to the northeast with moderate to steep south to southeasterly dips. An attitude obtained on a volcanic unit on the VIV 7 claim dips northwest, contrary to the regional trend, and suggests smaller scale folding within the isoclinal regional folds of Templeman-Kluit.

The dominant lithology north of Blueberry Creek is a foliated biotite chlorite arenaceous quartzite. The only lithology seen on the property south of the creek was a weakly foliated, lineated hornblendite. Thicknesses of the units are not determinable from mapping.

An interesting feature on the property is a collapsed dome on the north bank of Blueberry Creek on the VIV 10 claim. It is undetermined whether this is a geological feature (vent or plug) or a geomorphological feature (pingo). Limestone float is found in the creek at this location as well. Bostock implies the limestone marks the upper stratigraphy of the Yukon Group (Map 711A, H.S. Bostock, 1942). Quartz vein float with 1% galena pods and veinlets was found on the IAN 5 claim at 1080 m elevation. The vein was never seen in outcrop but could be followed downslope from the north ridge.

## EXPLORATION

Contour soil sampling was conducted over the property in 1991 (fig. 2). A total of 135 samples were taken at 50 m spacings along the 500 foot contour intervals shown on a 1:50,000 topographic map. Elevation and contours were maintained using altimeters and clinometers. Distances were measured using thread chains.

Seven rock samples were taken from the property. Two samples were from a mineralized float boulder on the IAN 5 claim, and five samples were gathered around the collapsed structure in the valley.

VIV-IAN CLAIM BLOCK  
 REGIONAL GEOCHEMICAL SURVEY

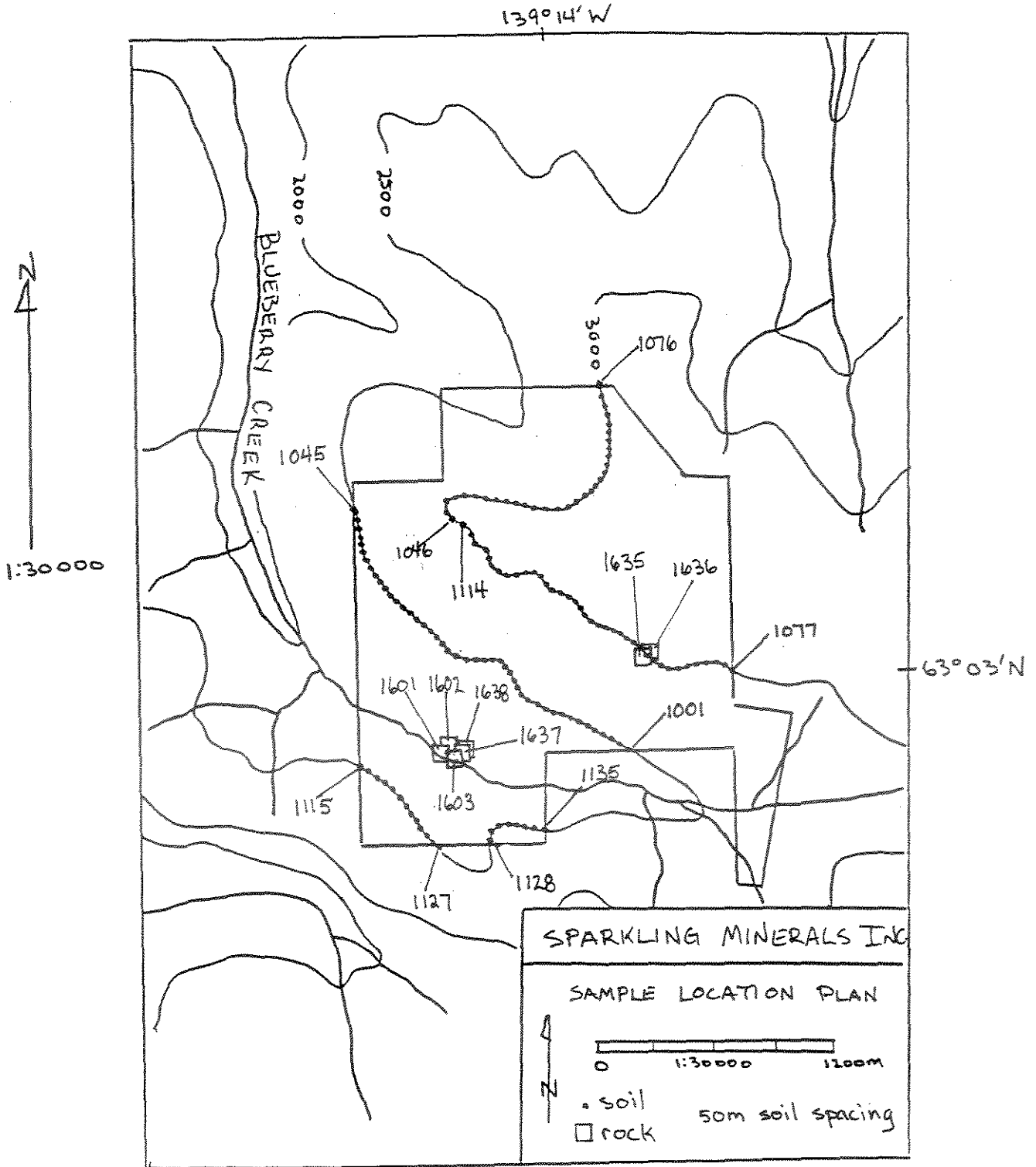


FIG. 2

## SOIL SAMPLE AND ANALYSIS TECHNIQUES

Approximately 500 grams of soil was taken from each site out of one pit. The pit was dug to the mineralized horizon, varying from 10 to 90 cm below the surface. Soil type was described in the field and samples were placed into sequentially numbered bags. Sample sites were marked with two colors of flagging tape.

Every second sample was submitted to Acme Analytical Laboratories in Vancouver. In the region of float occurrence every sample was submitted. The soils were analysed for gold plus 30 elements. The gold was determined using fire assay finished by ICP analysis. The 30 elements were detected using ICP analysis. For gold, 10 grams of a sample was fused with a flux then cupelled into a silver bead. The bead was dissolved in aqua-regia, then placed into a hot water bath. The sample was then diluted to 10 ml with water and read on the ICP machine. ICP analysis for the other elements is identical, except 0.5 grams of sample is digested in the aqua-regia.

## RESULTS

Assay certificates for soil and rock samples are listed in the appendix. Rock samples from the property are underlined.

The highest gold values obtained in soils are one of 87 ppb and one with 108 ppb. These samples are spaced 900 m apart on the 3000 foot contour north of Blueberry Creek (fig. 3). ICP response was relatively flat, although patterns can be delineated for some elements (fig. 4). Soils taken around the galena float bore elevated levels of lead. Soils from the south of Blueberry Creek had a continuous copper concentration. Similarly, zinc is anomalous along the north west portion of the property.

One rock sample carried elevated values in silver and lead. Sample 1635 was a specimen of quartz vein float with 1% galena and yielded 414 ppb Au, 2.2 ppm Ag, and 0.89% Pb.

VIV-IAN CLAIM BLOCK  
REGIONAL GEOCHEMICAL SURVEY

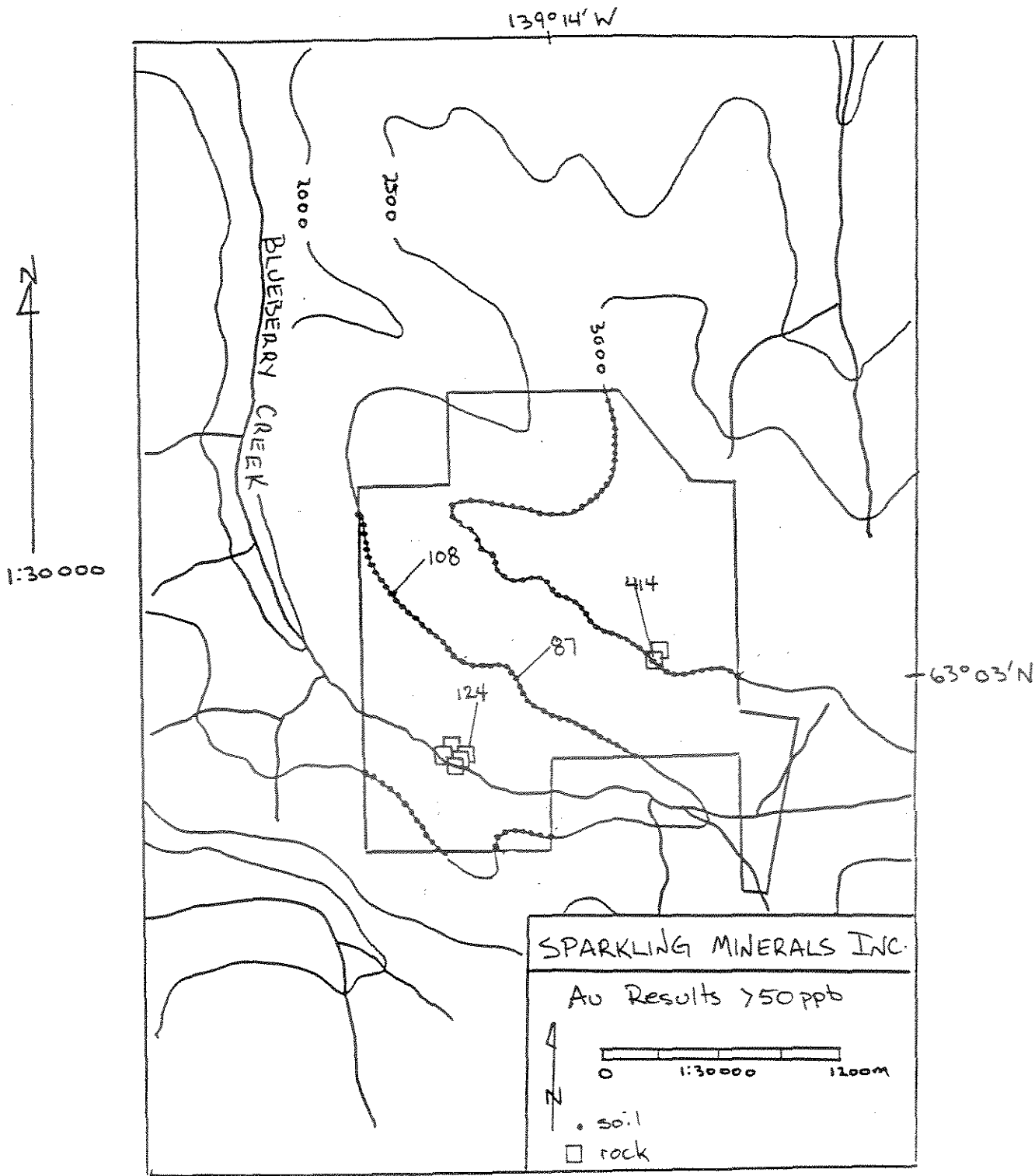


FIG. 3

VIV-IAN CLAIM BLOCK  
 REGIONAL GEOCHEMICAL SURVEY

139°14'W

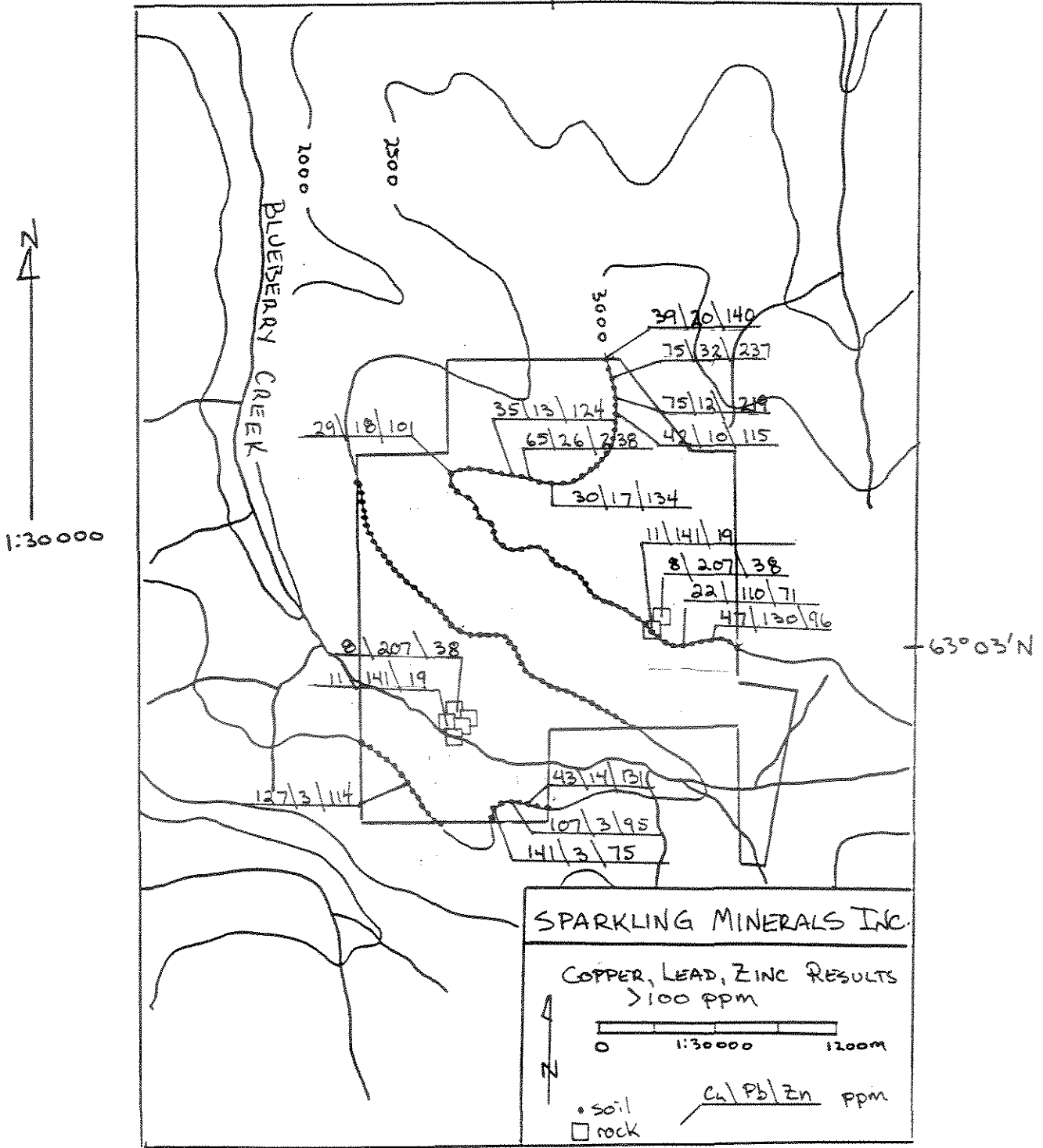


FIG. 4

### CONCLUSIONS (FIG. 5)

The 1991 exploration program on the VIV-IAN claims of Sparkling Minerals Incorporated revealed three zones of unique mineralization. The geological interpretation of the area is complicated by the extreme lack of rock exposure, however the regional geology is not usual for the styles of mineralization seen. It is therefore concluded the zoning of the property reflects a mineralization aureole of a nearby buried intrusion.

The occurrence of galena in quartz float on the VIV 5 claim opens the possibility of silver/lead veining upslope of the occurrence.

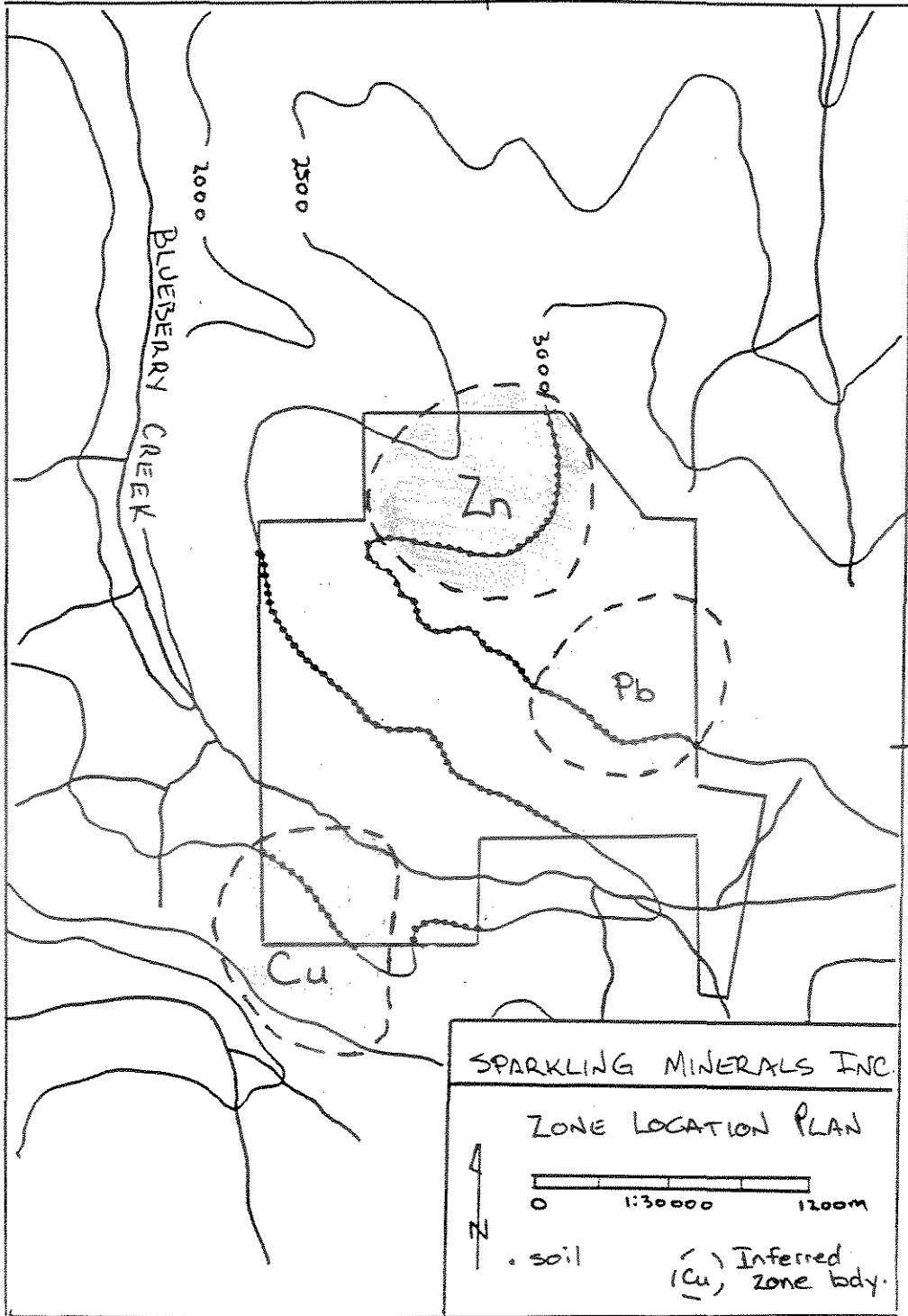
### RECOMMENDATIONS

Regional prospecting should be conducted around the property to locate the source of mineralized float and provide a possible lead to the location of the intrusive.

VIV-IAN CLAIM BLOCK  
REGIONAL GEOCHEMICAL SURVEY

139°14'W

↑ N  
1:30 000



63°03'N

FIG. 5

STATEMENT OF COSTS

Assessment credits to be applied to VIV 1-9, and IAN 1-7 claims.

A. Fieldwork; June 25 to July 5, 1991

F.J. Andersen, B.Sc.	
11 days @ \$134/day	\$1474.00
B.M. Prokopetz	
11 days @ \$116/day	\$1276.00
Subtotal	\$2750.00

B. Support costs

Fixed wing charter (Bonanza Aviation)	\$354.00
Analytical costs	\$1586.75
Camp costs	
22 man days @ \$52.85/day	\$1162.70
Boat rental	
9 days @ \$20/day	\$180.00
ATV rental	
11 days @ \$30/day	\$330.00
Small equipment rental	
11 days @ \$20/day	\$220.00
Subtotal	\$3833.45

C. Data compilation and report preparation

F.J. Andersen, B.Sc.	
6 days @ \$134/day	\$804.00
TOTAL 1991 ASSESSMENT EXPENDITURES	\$7387.45

## Statement of Qualifications

I, Farrell J. Andersen of  
6525 Brooks St.  
Vancouver, B.C.  
V5S 3J6

Do hereby certify that:

1. I am a practicing Geologist;
2. I am a graduate of the University of British Columbia, with a degree in Geology (B. Sc. 1989). I have been involved in mineral exploration in Canada and Australia since 1985;
3. I am a member of the G.A.C.;
4. I coordinated and supervised the work program and preparation of this report on the properties of Sparkling Minerals Inc.;
5. I have a 2.5% interest in the properties covered by this report as a return for my services;
6. I consent to the use of this report in a company report or statement, provided that no portion is used out of context in such manner as to convey a meaning differing materially from that set out in the whole.

Farrell J. Andersen, B. Sc.  
September 4, 1991

*Farrell J. Andersen*  
*Oct. 25, 1991*

APPENDIX: ASSAY CERTIFICATES

July 5, 1990

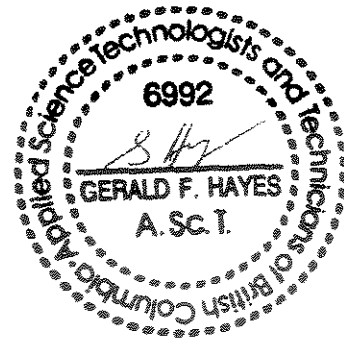
Work Order # 34596

Farrell Anderson  
Sparkling Minerals

Assay Certificate For Samples Provided

Sample	ppb Au	ppm Ag	ppm Cu	ppm Pb	ppm Zn	ppm As	ppm Sb
1601	<5	<0.1	11	141	19	51	3
1602	19	<0.1	8	207	38	64	4
1603	<5	<0.1	13	58	33	55	6
1604	<5	<0.1	3	35	36	124	29
1605	<5	<0.1	202	17	25	77	8

Sample	ppm Ni	ppm Co	ppm Cd
1604	46	17	6.8
1605	9	8	10.2



Au -- 30g Fire Assay/AAS  
Metals -- Aqua Regia Digestion/AAS Geochem

August 7, 1991

Work Order # 13289

Sparkling Minerals  
 Bag 2780  
 Whitehorse, Yukon  
 Y1A 3V5

Assay Certificate For Samples Provided

Sample	ppb Au	ppm Ag	ppm Cu	ppm Pb	ppm Zn	ppm As	ppm Sb
1635	414	2.2	13	8950	217	474	13
1636	36	<0.1	3	137	107	81	8
1637	9	0.3	12	35	96	5	10
1638	124	<0.1	2	41	59	41	13
1639	66	<0.1	<1	20	60	<1	12
1640	133	0.3	<1	13	42	<1	10
1641	48	0.9	47	18	56	7	15
1642	27	0.3	18	8	97	8	16
1643	172	0.7	<1	95	83	<1	16
1644	618	1.1	<1	348	152	15	42

Certified by C. Hyslop



## GEOCHEM PRECIOUS METALS ANALYSIS

Northern Analytical Labs, Ltd. FILE # 91-3500R Page 1

105 Copper Road, Whitehorse YT Y1A 2Z7

SAMPLE#	Au** ppb
13289 1001	9
RE 13289 1006	8
13289 1002	5
13289 1003	4
13289 1004	3
13289 1005	3
13289 1006	6
13289 1007	1
13289 1008	9
13289 1009	3
13289 1010	4
13289 1011	7
13289 1012	6
13289 1013	7
13289 1014	6
13289 1015	3
13289 1016	8
13289 1017	87
13289 1018	7
13289 1019	8
13289 1021	6
13289 1023	16
13289 1025	8
13289 1027	4
13289 1029	18
13289 1031	3
13289 1033	8
13289 1035	108
13289 1037	20
13289 1039	9
13289 1041	6
13289 1043	9
13289 1045	3
13289 1046	5
13289 1048	6
13289 1050	18
13289 1052	22
STANDARD AU-S	49

AU\*\* ANALYSIS BY FA/ICP FROM 10 GM SAMPLE.

- SAMPLE TYPE: PULP

Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 23 1991

DATE REPORT MAILED: Aug 29/91.

SIGNED BY.....*C. Leung*.....D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Au** ppb
13289 1054	4
13289 1056	23
13289 1058	4
13289 1060	3
13289 1062	5
13289 1064	8
13289 1066	4
13289 1068	3
13289 1070	1
13289 1072	4
13289 1074	6
13289 1076	4
13289 1077	3
13289 1078	14
13289 1079	7
13289 1080	2
13289 1081	1
13289 1082	2
13289 1083	2
13289 1084	15
13289 1085	1
13289 1086	3
13289 1087	3
13289 1088	3
13289 1089	2
13289 1090	5
13289 1091	1
13289 1092	3
13289 1093	2
13289 1095	8
13289 1097	3
13289 1099	1
13289 1101	2
13289 1103	3
13289 1105	4
RE 13289 1097	1
13289 1107	1
STANDARD AU-S	45

Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au** ppb
13289 1109	9
13289 1111	7
13289 1113	5
13289 1115	6
13289 1117	7
13289 1119	7
13289 1121	6
13289 1123	29
13289 1125	6
13289 1127	6
13289 1128	6
RE 13289 1121	4
13289 1130	8
13289 1132	8
STANDARD AU-S	53

Samples beginning 'RE' are duplicate samples.



GEOCHEMICAL ANALYSIS CERTIFICATE

Northern Analytical Labs. Ltd. File # 91-3500 Page 1
105 Copper Road, Whitehorse YT Y1A 2Z7

Table with columns: 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. Rows include sample numbers 13289 1001 through 13289 1052 and a STANDARD C row.

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 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 LIMITED FOR NA K AND AL AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: PULP Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 15 1991 DATE REPORT MAILED: Aug 20/91. SIGNED BY: [Signature] D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



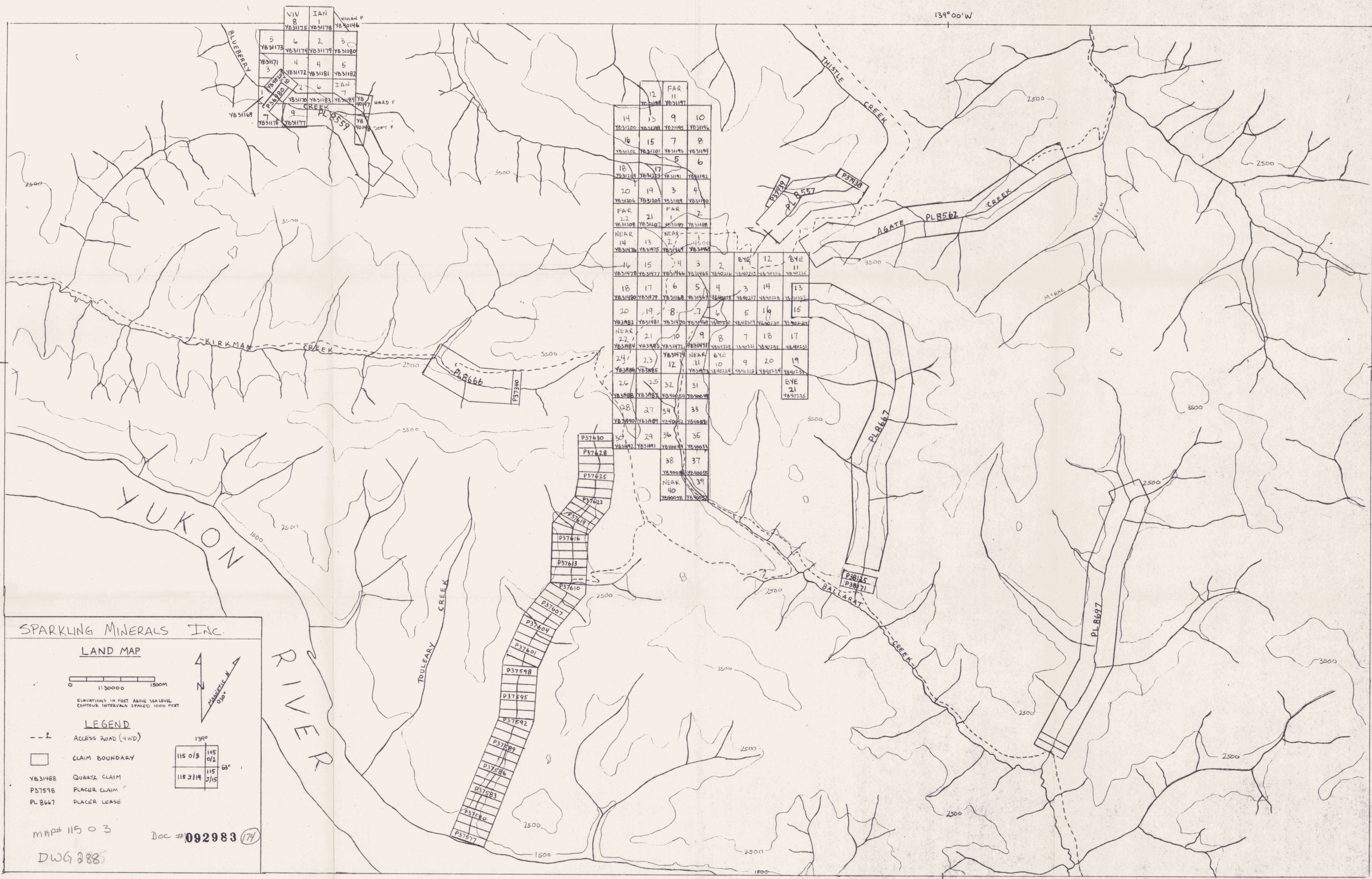
SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
13289 1054	1	35	13	124	.1	23	21	661	4.16	4	5	ND	3	20	.3	2	6	67	.24	.047	10	46	1.07	252	.17	3	2.17	.02	.37	1
13289 1056	2	65	26	238	.1	13	7	253	2.49	5	5	ND	3	22	.4	2	12	38	.21	.030	15	27	.42	192	.11	3	1.36	.02	.11	1
13289 1058	1	30	17	134	.1	22	10	249	3.71	5	5	ND	8	36	.2	2	2	57	.55	.038	51	36	.86	687	.14	2	2.82	.02	.14	2
13289 1060	1	20	13	78	.1	18	7	165	2.48	2	5	ND	4	31	.2	2	7	34	.34	.061	19	33	.56	200	.10	4	1.70	.03	.07	1
13289 1062	1	24	12	76	.1	13	8	278	3.18	2	5	ND	6	18	.2	2	6	49	.19	.029	16	25	.47	110	.13	2	1.65	.02	.11	1
13289 1064	1	16	12	96	.1	18	9	315	3.05	4	5	ND	4	26	.2	2	5	45	.31	.046	16	32	.58	228	.13	4	2.06	.02	.08	1
13289 1066	1	16	9	88	.1	15	9	369	3.13	4	5	ND	5	25	.2	2	7	50	.29	.030	14	29	.58	180	.13	3	1.90	.02	.07	1
13289 1068	1	42	10	115	.1	15	11	400	3.42	9	5	ND	4	19	.2	2	4	58	.29	.032	9	30	.83	173	.15	2	1.83	.02	.13	1
13289 1070	1	75	12	219	.1	36	23	631	4.88	4	5	ND	6	18	.4	2	2	91	.28	.042	12	99	3.92	468	.29	2	4.01	.03	1.34	1
13289 1072	2	75	32	237	.2	26	13	553	4.85	12	5	ND	3	24	.4	2	2	79	.17	.052	10	61	.97	211	.16	3	2.48	.02	.16	1
13289 1074	1	28	15	98	.1	19	9	289	3.50	8	5	ND	4	26	.2	2	6	58	.24	.020	15	34	.58	279	.10	3	2.13	.02	.05	1
13289 1076	1	39	22	140	.2	42	18	499	4.63	3	5	ND	19	33	.4	2	2	48	.79	.067	52	45	1.03	158	.13	5	1.82	.02	.23	1
13289 1077	1	16	21	70	.1	11	8	360	3.11	3	5	ND	7	20	.2	2	2	37	.31	.036	19	20	.65	190	.16	3	1.70	.01	.24	1
13289 1078	1	18	30	71	.1	14	7	389	3.00	4	5	ND	4	28	.2	2	4	45	.29	.024	18	24	.51	362	.12	3	1.75	.02	.12	1
13289 1079	1	22	25	73	.1	16	8	358	3.15	7	5	ND	6	32	.2	2	3	47	.38	.026	17	29	.58	274	.13	3	1.94	.02	.09	1
13289 1080	1	47	130	96	.2	22	18	1683	4.84	12	5	ND	10	36	.4	2	2	67	.35	.052	56	38	.60	544	.12	3	3.28	.02	.14	1
13289 1081	1	23	30	83	.4	17	9	516	3.93	8	6	ND	7	26	.3	2	6	57	.25	.023	30	31	.54	306	.14	3	2.66	.02	.14	1
13289 1082	1	20	55	72	.1	18	9	393	3.76	9	5	ND	5	24	.2	2	2	57	.21	.028	18	31	.52	274	.12	2	2.33	.01	.09	1
13289 1083	1	22	110	71	.1	21	9	275	4.03	10	5	ND	7	23	.2	2	2	64	.20	.020	20	36	.63	361	.13	2	2.43	.01	.09	1
13289 1084	1	18	53	59	.2	18	9	431	3.08	7	5	ND	5	28	.2	2	2	49	.25	.022	18	29	.54	373	.12	2	1.99	.02	.08	1
13289 1085	1	21	47	56	.1	16	9	277	2.98	8	5	ND	5	26	.2	2	3	41	.27	.021	9	23	.54	271	.12	2	2.02	.01	.11	1
13289 1086	1	21	57	61	.1	16	10	772	3.38	9	5	ND	4	29	.2	2	4	50	.30	.031	10	26	.48	459	.10	2	1.99	.02	.09	1
13289 1087	1	22	174	55	.2	13	7	308	2.58	2	5	ND	7	25	.2	2	2	36	.26	.022	23	23	.39	369	.10	2	1.41	.02	.07	1
13289 1088	1	15	40	65	.1	13	7	305	2.88	4	5	ND	7	22	.2	3	2	36	.23	.024	21	23	.47	371	.11	2	1.60	.01	.10	1
13289 1089	1	22	41	56	.2	12	11	721	2.81	5	7	ND	5	26	.2	2	2	44	.25	.025	29	23	.39	452	.13	3	1.58	.02	.18	1
13289 1090	1	17	13	57	.2	13	7	332	2.81	5	5	ND	6	21	.2	2	2	37	.22	.018	18	22	.47	195	.13	3	1.61	.01	.13	1
13289 1091	1	24	15	62	.1	18	12	504	3.56	8	5	ND	5	28	.2	2	2	61	.23	.026	21	35	.47	321	.13	3	2.49	.02	.11	1
13289 1092	1	26	57	59	.2	15	8	546	3.18	5	5	ND	5	29	.2	2	2	49	.29	.028	43	26	.46	489	.12	3	1.87	.02	.16	1
13289 1093	1	17	45	60	.1	21	10	321	3.33	9	5	ND	4	23	.2	2	4	58	.20	.014	11	38	.56	288	.12	2	2.32	.01	.08	1
13289 1095	1	29	10	65	.3	14	8	250	3.62	6	8	ND	6	22	.5	2	3	48	.20	.022	8	22	.37	246	.09	3	2.06	.01	.10	1
13289 1097	1	18	14	44	.1	13	6	245	2.57	8	5	ND	1	23	.2	2	3	50	.22	.018	9	26	.39	182	.12	3	1.53	.02	.06	1
13289 1099	1	25	23	59	.1	14	9	356	3.42	7	5	ND	5	24	.2	2	2	50	.25	.021	22	33	.59	285	.12	2	1.90	.01	.07	1
13289 1101	1	23	41	75	.2	14	9	528	3.19	7	5	ND	5	32	.2	2	3	47	.34	.038	36	28	.54	484	.10	4	1.96	.02	.12	1
13289 1103	1	18	13	73	.1	24	11	416	3.73	13	5	ND	3	30	.2	2	2	61	.27	.022	10	38	.67	325	.12	3	2.69	.01	.10	1
13289 1105	1	24	19	78	.2	18	13	682	3.41	7	5	ND	3	25	.2	2	7	56	.34	.023	12	30	.59	445	.13	2	2.08	.02	.15	1
RE 13289 1097	1	18	16	45	.1	14	6	257	2.67	7	5	ND	2	24	.2	2	2	52	.24	.020	10	28	.41	188	.12	2	1.58	.02	.06	1
13289 1107	1	17	7	71	.1	24	11	388	3.44	10	5	ND	2	29	.2	2	2	62	.29	.018	10	39	.61	322	.12	2	2.49	.01	.05	1
STANDARD C	18	57	39	133	7.4	69	33	1055	3.89	41	21	6	37	53	18.7	15	17	56	.47	.089	38	59	.88	173	.09	34	1.90	.06	.14	13

Samples beginning 'RE' are duplicate samples.



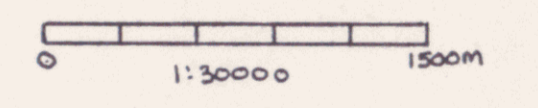
SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
13289 1109	2	25	8	66	.2	21	12	455	3.69	8	5	ND	4	17	.2	2	2	60	.17	.025	11	35	.56	242	.11	2	2.41	.02	.10	1
13289 1111	1	27	8	61	.1	21	9	288	3.31	7	5	ND	5	29	.2	2	2	57	.27	.021	11	37	.63	296	.14	2	2.38	.02	.06	1
13289 1113	1	13	17	45	.1	9	5	198	2.87	5	5	ND	4	17	.2	2	2	41	.15	.019	12	14	.55	419	.15	2	1.43	.01	.17	1
13289 1115	1	52	7	93	.1	25	13	378	3.37	3	5	ND	6	36	.2	2	2	62	.88	.070	24	37	.82	228	.10	3	1.79	.03	.10	1
13289 1117	1	43	4	70	.2	16	13	483	2.94	4	5	ND	3	34	.2	2	2	63	.79	.062	9	30	.64	144	.08	3	1.30	.03	.06	1
13289 1119	1	89	4	98	.1	25	13	352	3.27	4	5	ND	3	41	.2	2	2	71	.80	.075	12	38	.95	289	.13	4	2.01	.04	.07	1
13289 1121	1	127	3	114	.2	28	17	517	3.70	2	5	ND	2	37	.3	2	2	87	.95	.083	6	48	1.23	272	.13	6	1.98	.05	.08	1
13289 1123	1	87	4	78	.3	16	10	251	2.67	2	7	ND	3	29	.2	2	2	74	.59	.035	6	32	.72	242	.14	3	1.39	.04	.10	1
13289 1125	1	99	3	76	.1	24	15	354	3.86	3	5	ND	2	24	.2	2	2	96	.43	.057	7	43	1.07	174	.15	4	2.02	.03	.06	1
13289 1127	1	59	5	79	.2	20	10	221	2.57	5	5	ND	2	27	.2	2	2	59	.41	.032	8	45	.83	224	.14	2	1.65	.03	.06	1
13289 1128	1	141	3	75	.4	28	18	372	3.76	4	5	ND	4	31	.2	2	2	79	.60	.037	10	52	1.01	239	.11	3	2.19	.04	.08	1
RE 13289 1121	1	121	4	111	.1	26	16	489	3.49	4	5	ND	2	34	.3	2	2	82	.88	.082	6	44	1.15	253	.13	4	1.85	.05	.08	1
13289 1130	1	107	3	95	.1	27	19	552	4.08	4	5	ND	4	37	.3	2	2	87	.79	.068	14	39	.75	236	.07	4	1.56	.03	.07	1
13289 1132	1	43	14	131	.1	26	15	447	3.50	2	5	ND	6	32	.5	2	2	59	.56	.056	44	36	.68	171	.07	4	1.71	.03	.09	1
STANDARD C	20	62	37	133	7.1	70	32	1077	3.97	42	17	7	39	53	19.0	16	19	57	.48	.090	39	58	.88	177	.09	32	1.93	.07	.15	13

Samples beginning 'RE' are duplicate samples.

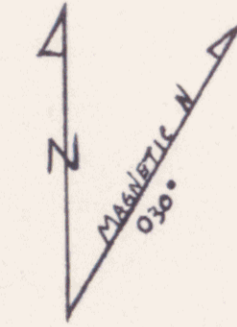


SPARKLING MINERALS INC.

LAND MAP



ELEVATIONS IN FEET ABOVE SEA LEVEL  
CONTOUR INTERVALS SPACED 1000 FEET



LEGEND

- - - ACCESS ROAD (4WD)
- CLAIM BOUNDARY
- YB31488 QUARTZ CLAIM
- P37598 PLACER CLAIM
- PL 8667 PLACER LEASE

115 0/3	115 0/2
115 3/14	115 3/15

MAP# 115 0 3

Doc # 092983 (174)

DWG 288