BRITISH COLUMBIA

PROSPECTORS ASSISTANCE PROGRAM

MINISTRY OF ENERGY AND MINES

GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR:	2001/2002
REPORT #:	PAP 01-45
NAME:	TOM CARPENTER

PROSPECTING REPORT

on the

ALLENDALE LAKE AND STIRLING CREEK AREAS, B.C.

Prepared in Compliance

with the

Prospectors Assistance Program

Grantee: Tom Carpenter

Reference # 2001/2002 P.88

Tom Carpenter
3902 – 14th Street
Vernon, BC
V1T 3V2
December 10, 2001

P88

PROSPECTING REPORT

on the

ALLENDALE LAKE AND STIRLING CREEK AREAS, B.C.

Prepared in Compliance

with the

Prospectors Assistance Program

Grantee: Tom Carpenter

Reference # 2001/2002 P.88

Tom Carpenter
3902 – 14th Street
Vernon, BC
V1T 3V2
December 10, 2001

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF APPENDICES

SUMMARY

In May, 2001 the author was awarded a Prospectors Grant (2001/2002 P.88) under the British Columbia Prospectors Assistance Program. This grant was designed to carry out reconnaissance geochemistry and prospecting over the Kap 1 to 6 and 8 to 16 claims in the Allendale Lake area, east of Okanagan Falls (Figure 1) and in the Stirling Creek area, north of Beaverdell (Figure 2).

The principal focus of the program was exploration for the source of gold anomalies in stream sediments discovered during the course of a 2000/2001 grant under the Prospectors Assistance Program. No significant platinum or palladium was noted in the 2000/2001 regional geochemical stream sediment program.

However the program was successful in defining significant gold anomalies in drainages in the Allendale Lake area and in the Stirling Creek/Stump Lake area west of Arlington Lakes. No gold occurrences have been previously reported in either area.

The 2001/2002 PAP program was designed to define a bedrock source for these anomalies but was unsuccessful in this regard.

INTRODUCTION

The Allendale Lake/Stirling Creek project was initiated to explore for the bedrock source of gold mineralization discovered in stream sediments during a prospecting program carried out in 2000.

At Allendale Lake, the Lynx showing has been explored for porphyry copper and silver mineralization. Sampling in 2000 determined that gold mineralization was also contained within this showing. The Lynx showing is contained within a syenite intrusive identified as part of the Coryell Intrusions. At Allendale Lake the syenite intrudes rocks previously mapped as Monashee Group metamorphic rocks and Valhalla and Nelson intrusive rocks. A smaller plug of Coryell plutonic rocks has been mapped at Sterling Creek, east of Greyback Mountain.

The field program began on June 7, 2001. The field program ended with the onset of winter conditions in October.

PENTICTON

Scale 1:100 000

FIGURE 1

01-95 (1)

KELOWNA

Scale 1:100 000

FIGURE 2

01-45
(2)

LOCATION AND ACCESS

The project area is contained within a target area in the vicinity of Allendale Lake, (Figure 1) and Stirling Creek (Figure 2).

Access is excellent throughout the area. From Highway 97 at Okanagan Falls the Okanagan Falls Forest Service Road extends north-northeasterly to Highway 33 near Idabel Lake. Logging roads off the Okanagan Falls F.S.R. provide access to the target areas.

TRIM (Terrain Resource Information Management) maps provide good road access information. These maps however, produced in 1994 from aerial photography flown in 1988, do not show logging roads developed since 1988. Up to date road maps exist only at the Ministry of Forests office in Penticton.

TOPOGRAPHY

The area covers a portion of the Okanagan Highlands, a broad plateau ranging from 1600 to 1800 metres above sea level. The topography comprises gently sloping to rounded hills.

The effects of glaciation are noted throughout the area and include, in the Allendale Lake area eskers, drumlins and both lateral and terminal moraines. Much of the area is covered by variable thicknesses of glacial till.

REGIONAL GEOLOGY

The most recent regional geology of the project area is shown on the 1989 Geological Survey of Canada Map 1736A – Geology/Penticton by D.J. Tempelman-Kluit. This map is a revision of GSC Map 15-1961 – Geology/Kettle River, West Half by H.W. Little.

The differences between these two maps is profound, especially in the ages of rocks in the vicinity of Allendale Lake. At Allendale Lake the Coryell syenite plug occurs at the junction of three rock types. These are mapped by Little as Valhalla Plutonic Rocks of presumed Lake Cretaceous age to the east, Precambrian or later Monashee Group gneisses to the southwest and Cretaceous Nelson plutonic rocks to the northwest.

Tempelman-Kluit has assigned a Jurassic/Cretaceous age to the plutonic rocks to the east. These rocks are now a part of the Okanagan Batholith. To the northwest the former Cretaceous Nelson plutonic rocks have been assigned an early Eocene age. The Precambrian or later Monashee Group gneisses to the southwest have been renamed Okanagan Gneiss and also assigned an early Eocene age.

In the Stirling Creek area Coryell syenite is shown as intruding rocks of the Okanagan batholith by Tempelman-Kluit and Valhalla rocks by Little.

EXPLORATION HISTORY

The only previous exploration within the project area was centred on the Lynx showing (082ESW006) west of Allendale Lake. No previous exploration is known to have been carried out in the Stirling Creek area.

The Lynx showing, comprising copper-silver mineralization, occurs in a late fine grained felsic phase of a syenite stock. This mineralization was explored by limited drill programs in the early 1970's and the early 1980's by Selco Ltd. and Allendale Resource Corp. respectively.

Analyses of mineralization from the Lynx showing by several other individuals including by Neil Church of the B.C. Geological Survey Branch in 1988, revealed a platinum/palladium association with this mineralization including values to 0.048 oz/ton platinum and 1160 ppb palladium (F. Niddery – personal communication).

Placer platinum was also reported in 1920 in Shuttleworth Creek by the Munitions Resources Commission of the Government of Canada.

FIELD PROGRAM-KAP 1-6, 15 & 16 Claims

The 2001 field program was begun on the Kap 1-6, 15 and 16 claims to the south-southwest of Allendale Lake. An examination of the topographic and geomorphic conditions in this area early in the program showed an area with scattered outcrop but largely covered with an unknown thickness of till.

It was felt that a thorough exploration program consisting of geological geochemical and geophysical surveys should be carried out over this area. If exploration results were positive then the results could be extrapolated on to the Kap 8 to 14 claims at the northwest corner of Allendale Lake where less outcrop was evident. The program was carried out in stages comprising a magnetometer survey, mapping, soil and silt sampling, a VLF-EM survey, further soil sampling and, lastly, the collection and processing of two pan concentrate sampling

Prior to the start of the field program, several days were spent doing a microscopic examination of reject material from the year 2000 pan concentrate samples. This examination confirmed the presence of gold in the anomalous 2000 samples and showed visible gold as small flakes and an occasional small nugget within the drainages covered by the KAP claims.

GEOPHYSICAL SURVEY

Magnetic and electromagnetic surveys were carried out over grid established with the use of a hip chain and compass. Seven northwest-southeast grid lines were established at 100 metre intervals with stations at 25 metre intervals.

MAGNETIC SURVEY

Program Parameters

The magnetometer survey was carried out using a Geometrics Unimag II proton magnetometer. Seven lines with a total length of 6500 m were surveyed.

Readings were collected at 12.5 metre intervals along the grid lines, corrected for diurnal variation and contoured at an interval of 200 nanoTeslas (nT) after subtracting a datum of 56,000 nT (gammas) from the readings.

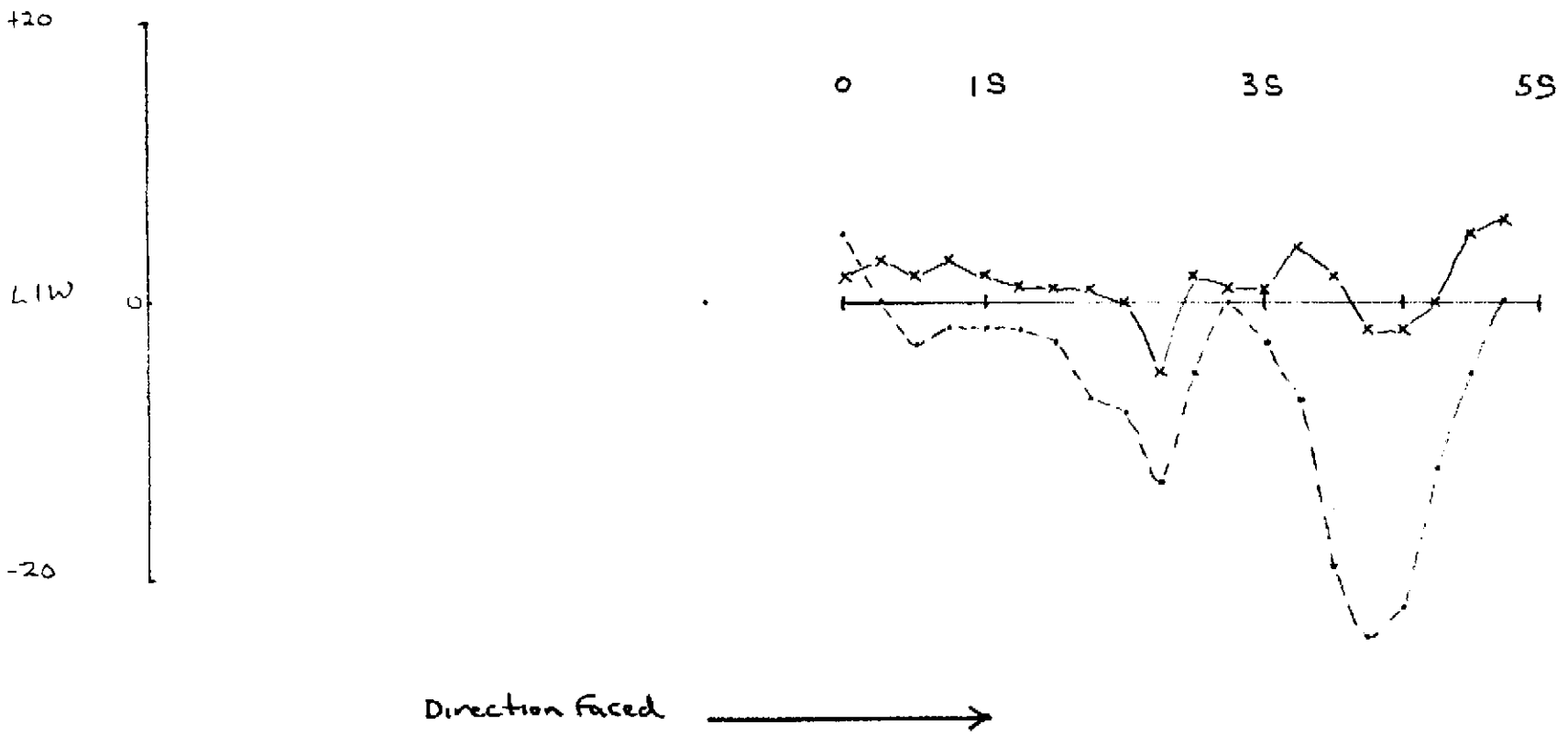
The data are contained in Appendix B and are presented on Figure 5 with values ranging from 56,426 nT to 57,398 nT for a total relief of 972 nT.

Program Results

The magnetometer survey shows a distinct northwesterly trend extending from the southeastern corner of the grid to the northwestern corner of the grid.

To the northeast of this trend occurs a zone of higher magnetic response with lower magnetics to the southwest. These zones correspond to mapped granodioritic rocks to the northeast and mafic gneiss to the southwest. Interestingly, the felsic granodioritic rocks are much more magnetic than the mafic gneiss.

Distinct magnetic lows occur in the southwest corner of the grid area and correspond largely to the vicinity of the anomalous creek in this area. In part the magnetic lows correspond to springs that feed the creek and presumably therefore represent broken and/or altered bedrock.



. — — . In phase

x —— x Quadrature

VLF Profiles

FIGURE 7

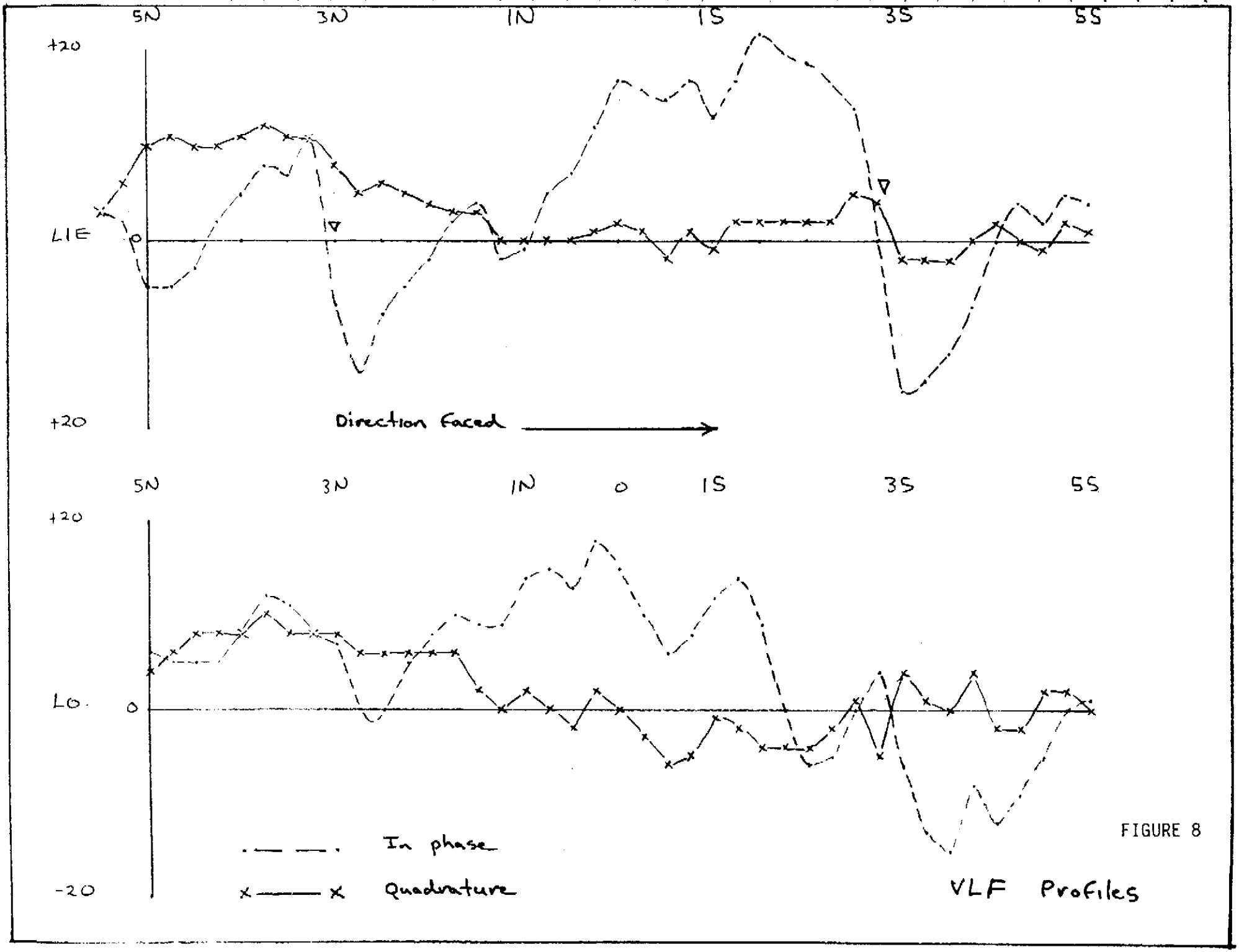

5N
3N
1N
1S
3S
5S
+20
LIE
0
+20
Direction Faced
5N
3N
1N
0
1S
3S
5S
+20
Lo
0
-20
In phase
Quadrature
VLF Profiles

FIGURE 8

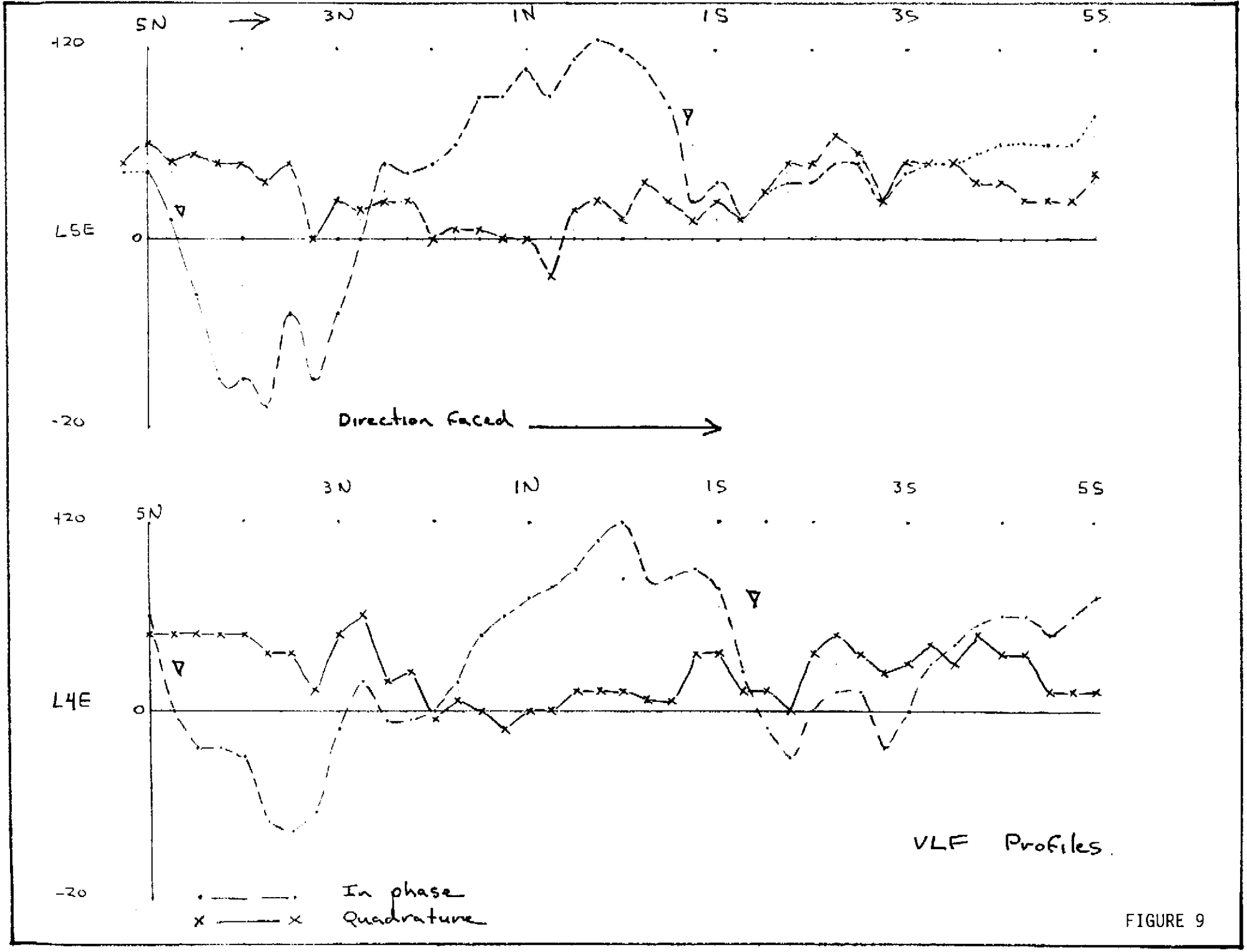

5N
3N
1N
1S
3S
5S
+20
L5E
0
-20
Direction Faced
3N
1N
1S
3S
5S
5N
+20
L4E
0
-20
In phase
Quadrature
VLF Profiles

FIGURE 9

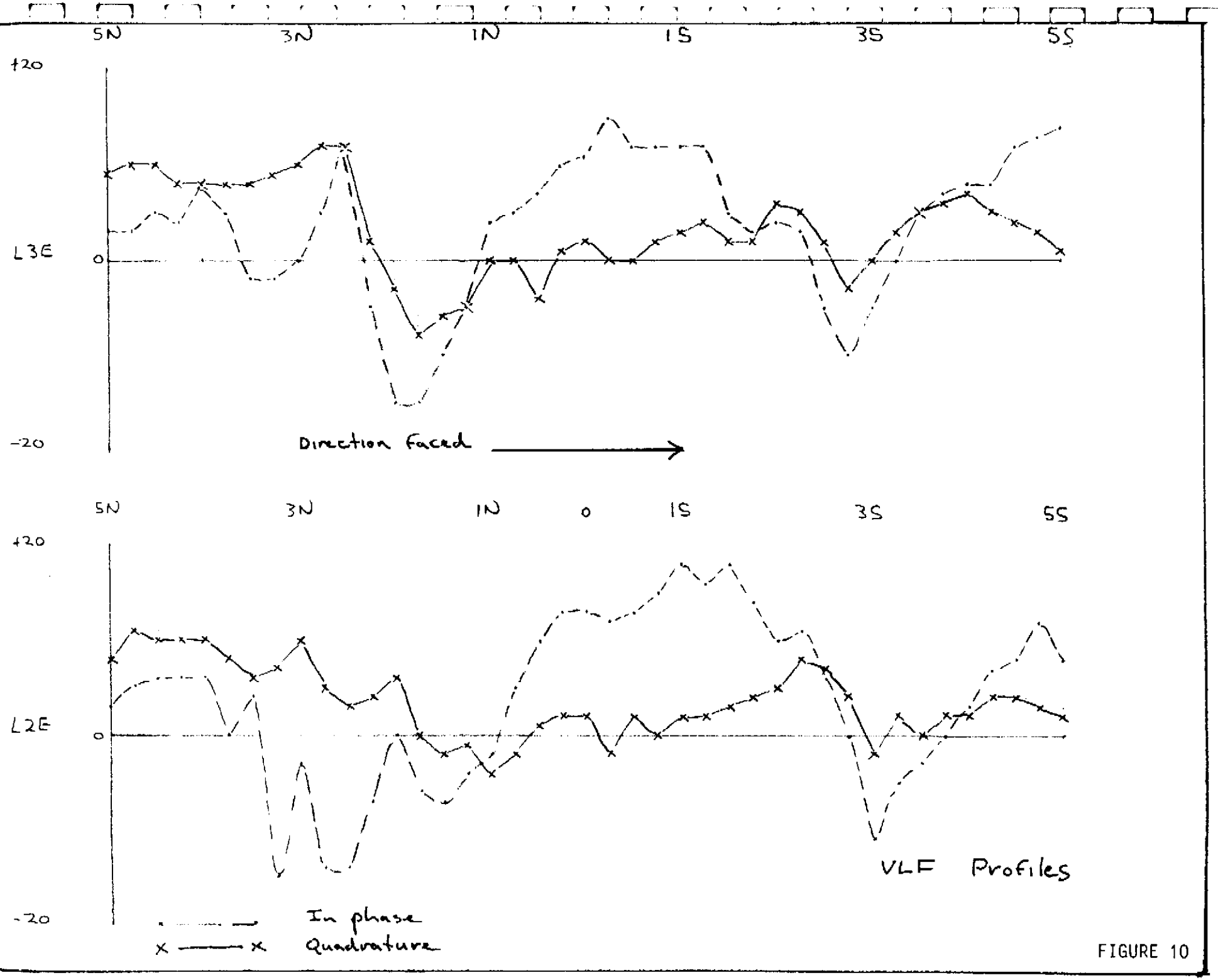

5N
3N
1N
1S
3S
5S
+20
L3E
0
-20
Direction Faced
5N
3N
1N
0
1S
3S
5S
+20
L2E
0
-20
In phase
Quadrature
VLF Profiles

FIGURE 10

ELECTROMAGNETIC SURVEY

Program Parameters

The electromagnetic survey was carried out using a Geonics EM16 VLF-EM unit. This unit utilizes, as a transmitter, the VLF (Very Low Frequency) transmitting stations operated by the U.S. Navy for communications with submarines at frequencies close to 20,000 Hz, which is low compared to the normal broadcast band. These stations have vertical antennas and the antenna current is thus vertical, creating a concentric horizontal magnetic field when these magnetic fields meet conductive bodies in the ground, secondary fields are created radiating from these bodies.

The EM16 unit measures the vertical component of these secondary fields. Readings were taken along the grid lines at 25 metre intervals. In phase and quadrature components for these readings are contained in Appendix B and are shown on Figures 7 to 12.

The In Phase data have also been manipulated using the Fraser Filter method to transform the survey profiles into contourable data. This manipulation transforms zero-crossovers representing conductors into peaks and allows the elimination of background "noise".

Contoured Fraser Filter data are shown on Figure 6.

Program Results

The profile and Fraser Filter data show several conductors extending in a northeast to southwest direction.

A weak to moderate conductor occurs extending from L5E, 4+50N to L0, 2+75N. Two moderate to strong conductors also trending from northeast to southwest occur in

the southern part of the grid from L5E, 0+50S to L1W, 1+7S5 and from L3E, 2+50S to L1W, 3+25S.

All of these conductors correspond, at least in part, with magnetic lows and probably represent fault or shear zones in bedrock.

GEOLOGICAL SURVEY

Program Parameters

Mapping was carried out along the established grid at a scale of 1:5,000 and off the grid with the aid of a hand-held GPS (Global Positioning System) unit.

Program Results

Basically three rock types occur in the KAP claim area. These comprise a mafic gneiss, which appears to be a meta-diorite, that has been intruded by a granodiorite. A pegmatite that is presumably a late phase of the granodiorite is found near the contact of the above two units. The pegmatite occurs as presumed dikes and as masses within the gneiss.

Foliations within the gneiss trend from northeast to southwest and presumably represent the regional fabric. Foliations within the granodiorite trend from northwest to southeast and is shown by a weak though persistent lineation within the granodiorte.

Only minor oxidation was noted locally within the limited outcrops and float derived from the granodiorite. Minor quartz veining with veinlets to ~2cm was also noted locally but was of very limited extent.

Mapping results are shown on Figure 3.

GEOCHEMICAL SURVEY

Before the start of the field program, pan concentrate samples anomalous in gold from the 2000/2001 program were analyzed by ICP methods. These results are contained in Appendix C and show that in the PTS-01 sample the only element anomalous other than gold is silver.

The association of gold and silver is therefore similar to the gold and Venner showings (Minfile #s 082ESW112 and 127) that occur approximately 8 km south-southeast of the KAP claims.

With the lack therefore of any significant pathfinder element it was decided in the interests of economy to analyze soil samples collected from the grid for gold only.

Program Parameters

The initial focus of the soil sampling was on Lines 0 and 2E, from the baseline to 5N. A total of 41 samples was collected of which every second sample was sent for analysis. Samples were collected from the "B" horizon by shovel, placed in kraft paper bags and shipped to ALS Chemex labs where they were analyzed for gold content.

In conjunction with the soil sampling, four silt samples were collected from the claim area. These samples were collected from the PTS-01 sample site, from a second site 400 metres to the southeast on the same drainage and from a parallel drainage to the southwest.

A second round of soil sampling was carried out after completion of the VLF-EM survey to cover the prominent conductors defined in the southern part of the grid. Samples were collected on lines 1W and 2E over the areas of the conductors.

Sample locations and results are shown on Figure 4.

At the end of the program, after the receipt of the soil and silt results, two pan concentrate samples were collected. These samples were taken at the original site of PTS-01 and from the site of silt sample S-004 (Figure 4).

Program Results

Results of the soil and silt sampling program were disappointing. A maximum of 5 ppb au was contained in the soil samples. It should be noted however that very few of the collected samples were good "B" horizon samples. In some cases, especially near the anomalous drainage, many of the fines had been washed away leaving only bouldery "lag" deposits. In other cases a perched water table and clayey soil has meant the poor development of a "B" horizon.

No significant gold was contained in the silt samples.

Silt sampling however is an inexact medium to use for gold exploration due to a number of factors including the small size of the collected sample and the small portion of the sample that is tested. With the poor results obtained from the silt samples it was decided to resample the original pan concentrate site as well as a parallel drainage to the west to determine if results could be duplicated.

A resampling of the pan concentrate at the PTS-1 location returned an anomalous value of 0.04 ppm gold (40 ppb). Though much lower than the original sample result, owing possibly to nugget effect, the sample is nevertheless anomalous and indicates a source for the gold somewhere within the drainage area.

KAP 8-14 FIELD PROGRAM

Prospecting of the anomalous drainages contained within the KAP 8-14 claims was carried out as part of the 2001/2002 program.

The area, that largely comprises valley bottom, was found to be largely devoid of outcrop except for known outcrops that form a prominent ridge west and southwest of the claim area. This ridge comprises syenite that hosts known Cu ± Pt ± Pd ± Au occurrences.

Several outcrops of similar rock were noted to the northeast of the claim area and indicates that similar prospective rocks probably underlie the KAP 8-14 claims.

The claim area itself however is largely covered by glacial material as till, terminal moraines and small eskers. The glacial material is of unknown thickness but in a small gravel pit at the north end of the claims is seen to be in excess of four metres thick.

Due to the lack of positive geochemical results on the KAP 1-6, 15 and 16 claims and the apparent lack of outcrop on the KAP 8-14 claims, no work other than prospecting was carried out.

STIRLING CREEK AREA PROGRAM

Work in the Stirling Creek area was concentrated in the area of PTS-019, a pan concentrate site which during the 2000/2001 program was seen to contain visible gold and assayed greater than 10,000 ppb gold.

A sample, PTS-018, collected ~2.1 km upstream from this site contained no gold. Therefore it was assumed that the gold in PTS-019 had to be derived from the area upstream from PTS-019 but downstream from PTS-018.

The field program carried out in this area as part of the 2001/2002 program therefore relied principally on geological mapping to define a bedrock source for the gold.

GEOLOGICAL SURVEY

Program Parameters

The geological survey, comprising mapping and prospecting, was carried with the use of a hand-held GPS receiver out on TRIM maps enlarged to a scale of 1:5,000. A Forest Cover Inventory map was also used to locate overgrown and deactivated logging roads that were not shown on the TRIM map or that had been constructed since the plotting of the TRIM map. During the mapping/prospecting program, seven rock samples comprising altered gabbro and/or quartz vein material were collected and submitted for analysis. These rocks were shipped to ALS Chemex in North Vancouver where they were assayed for gold by F.A._A.A. techniques. Sample locations are shown on Figure 11. Sample descriptions and analytical results are contained in Appendix D.

Program Results

The mapping program defined gabbroic rocks at and upstream from the PTS-019 sample site for approximately 450 metres (Figure 11). The gabbro trends southwesterly for at least 1 km but does not appear to extend to the northeast.

The gabbro near the PTS-019 site is brecciated and epidotized. To the southwest, along the southern contact the gabbro where in contact with granite is similarly altered and contains quartz veinlets. Along the northern boundary of the gabbro, west of PTS-019, limonitic fractures occur in granitic rocks. Some small hand-dug pits were noted in the area of sample SC-07.

No significant gold values were obtained in any of the collected rock samples.

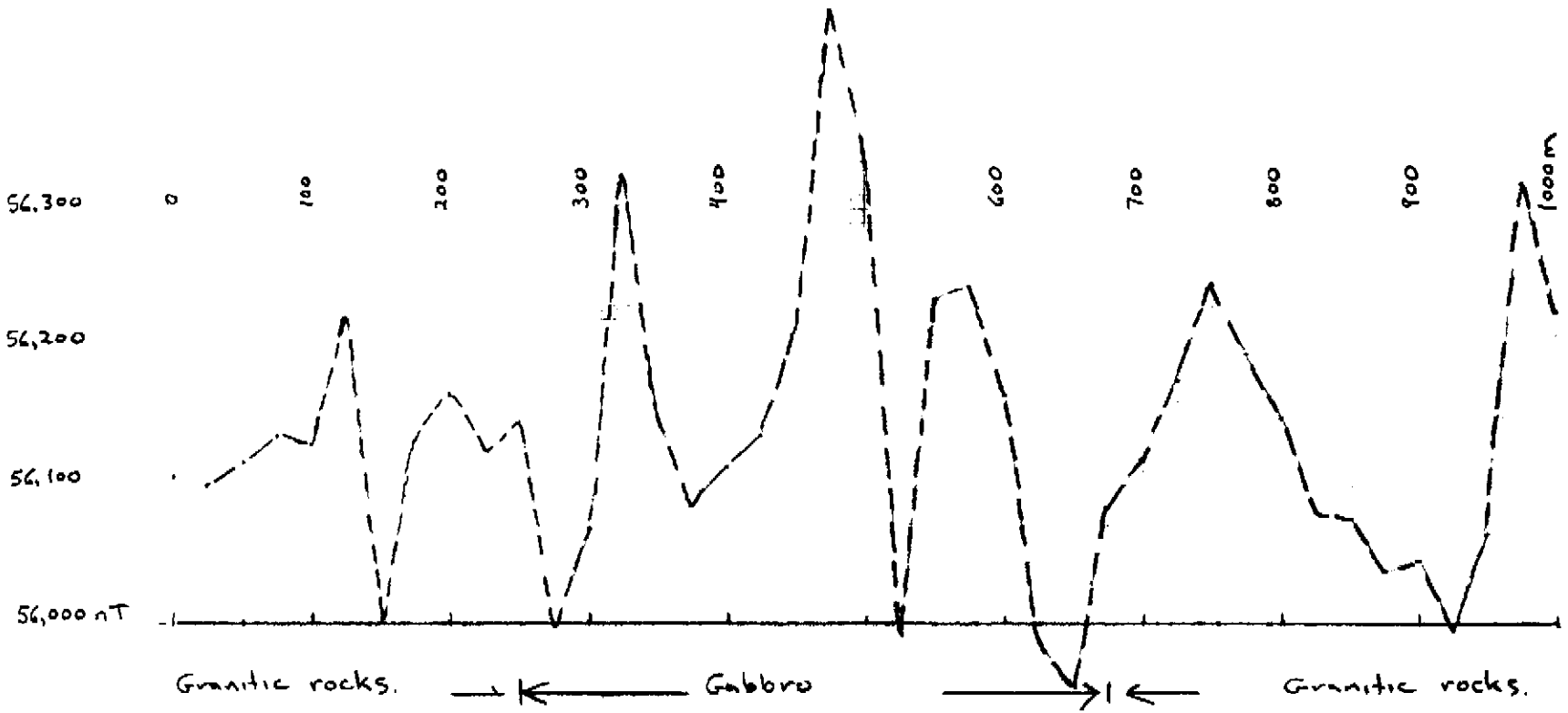
GEOPHYSICAL SURVEY

Program Parameters

A single line magnetometer survey was run from north to south across the gabbro mapped in the vicinity of the PTS-019 sample site. The survey was run using a Geometrics Unimag II proton magnetometer. Readings were taken at 25 metre intervals along a line 1 km in length. The line location is shown on Figure 11. A profile of results is shown on Figure 12. Survey data are contained in Appendix D.

Program Results

The magnetometer profile (Figure 12) shows distinct magnetic lows at the mapped contact of the gabbro with granite. These lows correspond to alteration zones within the gabbro. Other magnetic lows occur within the granite both to the north and to



STIRLING CREEK
Magnetometer Survey

FIGURE 12

the south of the gabbro contacts. These lows are unexplained and may be related to shear zones parallel to the gabbro/granite contact.

GEOCHEMICAL SURVEY

Program Parameters

Four pan concentrate samples were collected on Stirling Creek. These samples were collected to confirm the interpretation that the source of gold in the 2000 PTS-019 sample was confined to the area between PTS-019 and PTS-018.

The pan concentrate sample, SCPC-01, collected at the original PTS-019 location did not repeat the original sample value. Samples SCPC-03 and 04, collected upstream from the northern gabbro contact, contain 0.23 g/t and 0.16 g/t Au (230 ppb and 160 ppb). These values are definitely anomalous and indicate a gold source upstream from SCPC-04.

CONCLUSIONS

Overall, the results of the 2001 prospecting program were disappointing. Various surveys at Allendale Lake failed to define a bedrock source for gold detected in pan concentrates in the 2001 field program. Though mapping and geophysical surveys defined a likely alteration zone associated with electromagnetic conductors and magnetic lows near a geological contact. Poor sampling conditions over this area however did not allow confidence in the soil sampling survey carried out. The program could have benefited from limited trenching over these areas. However due to the nature of the soil material this trenching could not have been carried out by hand and available budget did not allow the rental of mechanized equipment for trenching purposes.

.....

Prospecting and mapping at Stirling Creek also failed to determine a bedrock source for anomalous gold values detected in the year 2000 program. Altered bedrock proximal to the anomalous sample site was determined not to be the source of the gold.

The program was successful however in verifying the presence of gold in Stirling Creek as anomalous values were defined upstream from the anomalous PTS-019 sample site. Mapping indicates that the geology of the area at Stirling Creek may be more complicated than originally thought and may be complicated by north-south faulting within the valley of Stirling Creek.

RECOMMENDATIONS

Continued exploration is recommended in the area of the KAP 1-6 claims to determine if mineralization can be traced between the KAP claim area and the Venner and Gold showings to the south. Further pan concentrate sampling should be carried out between these areas to check for anomalous drainages that may suggest possible continuity between the areas.

Attempts should also be made to trench the electromagnetic conductors located in the southern part of the grid area. These conductors may represent structural zones similar to those at the Venner showing that host the known mineralization.

The lack of pathfinder elements other than gold and silver presents some difficulties in exploration in that neither of these elements is especially widespread and easily detectable by regional geochemical exploration. Pan concentrate sampling or a similar geochemical method should therefore be carried out at closely space intervals in the area between the KAP claims and the Venner area. Preferably heavy mineral sampling should be carried out as this method would help to eliminate any possible nugget effect.

Heavy mineral sampling is also recommended on Stirling Creek to determine the upstream cutoff of anomalous gold values. Prospecting, mapping and geochemical surveys should then be carried out in the area of the upstream cutoff to attempt to define the bedrock source.

Geophysical surveys, especially an electromagnetic survey should be run across the valley of Stirling Creek to test the possibility of north-south structures that may be contributing gold mineralization to the creek.

Respectfully submitted,

Tom Carpenter
December 10, 2001

BIBLIOGRAPHY

Minfile Reports

082ENE053, 082ENE055, 082ENE056, 082ENE060, 082ENE061
082ESW030, 082ESW060
082ENW004
082ENW040
082LSW005

Assessment Reports

Lynx – 7593, 10517, 15466, 18821, 20132

Other

GSC Map 15-1961
GSC Map 10-1967
GSC Paper 67-42
MEMPR Open File 1986-7
MEMPR Preliminary Map 20
MEMPR Revised Preliminary Map 35
MEMPR Preliminary Map 41

APPENDIX B

KAP CLAIMS

MAGNETOMETER AND VLF-EM DATA

KAP 1-6 CLAIMS
MAGNETOMETER SURVEY

Base Station @ B/L 3+70E 56802nT @ 3:06 p.m. June 24, 2001

	Station	Reading	Time	
L4E	B/L	57135	3:07	
	0+25S	56945		
	0+50	56893		
	0+75	56960		
	0+00	56907		
	1+25	56780		
	1+50	56845		
	1+75	57059		
	2S	56858	3:17	
	2+25	56759		
	2+50	56800		
	2+75	56775		
	3S	56919	3:21	
	3+25	56775		
	3+50	56929		
	3+75	56900		
	4S	56839		
	4+25	56848		
	4+50	56787		
	4+75	56780		
	5S	56850	3:32	
Base Station		56806	4:45	
L5E	5S	56809	3:35	
	4+75	56844		
	4+50	56862		
	4+25	56770		
	4S	56863	3:39	
	3+75	56965		
	3+50	57230		
	3+25	56890		
	3S	56975	3:43	3+05S Esker
	2+75	56950		
	2+50	56806		
	2+25	56798		
	2S	56807	3:48	
	1+75	56920		
	1+50	57115		

	Station	Reading	Time
	1+25	57180	
	1S	57166	3:53
	0+75	57305	3:54
	0+50	57030	
	0+25	57120	
	B/L	57070	
	0+25N	57159	4:00
	0+50	57192	
	0+75	57088	
	1N	56965	
	1+25	57045	4:04
	1+50	57144	
	1+75	57175	
	2N	57229	
	2+25	57173	
	2+50	57113	
	2+75	57054	
	3N	56998	4:11
	3+25	57099	
	3+50	56911	
	3+75	57006	
	4N	57045	4:15
	4+25	57026	
	4+50	57122	
	4+75	57030	
	5N	57050	4:20
	5+25	57010	
	5+50	56960	(Edge of Road)
L4E	5+00N	57109	4:24
	4+75	57175	
	4+50	57203	
	4+25	57285	
	4N	57309	4:27
	3+75	57292	
	3+50	57263	
	3+25	57145	4:30
	3N	56928	4:31
	2+7S	57081	
	2+50	56977	
	2+25	57106	
	2N	57193	4:34
	1+75	57296	

	Station	Reading	Time
	1+50N	57282	
	1+25	57115	
	1N	57144	
	0+75	57296	
	0+50	57398	3:40
	0+25	57275	4:41
	B/L	57140	4:42
Base Station		56784	11:30
L3E	B/L	56814	
	0+25N	56858	
	0+50	56748	
	0+75	56879	
	1+00	56855	
	1+25	57034	
	1+50	57156	
	1+75	57015	
	2N	57114	
	2+25	56972	
	2+50	56885	
	2+75	56832	
	3N	56901	
	3+25	56958	
	3+50	56850	
	3+75	56950	
	4N	47320	
	4+25	57332	
	4+50	57211	
	4+75	57251	
	5N	57175	11:47
	5+25	57177	
L2E	5+N	57160	
	4+75	57047	
	4+50	57000	
	4+25	56842	
	4N	56700	
	3+75	56698	
	3+50	56787	
	3+25	56956	
	3N	56970	
	2+75	57005	

	2+50	57206	
	2+25	57112	
	Station	**Reading**	**Time**
	2N	56935	
	1+75	56972	
	1+50	57030	
	1+25	57042	
	1N	56960	
	0+75	56877	
	0+50	56780	
	0+25	56900	
	B/L	56792	12:09
L2E	0+25S	56778	
	0+50	56682	
	0+75	56818	
	1S	56834	
	1+25	56715	
	1+50	56804	
	1+75	56656	12:18
	2S	56567	
	2+25	56590	
	2+50	56635	
	2+75	56603	
	3S	56595	
	3+25	56635	
	3+50	56643	
	3+75	56680	
	4S	56773	
	4+25	56792	
	4+50	56765	
	4+75	56720	
	5S	56722	12:29
L3E	5S	56850	12:38
	4+75	56740	
	4+50	56795	
	4+25	56662	
	4S	56708	
	3+75	56827	
	3+50	56725	
	3+25	56640	
	3S	56651	
	2+75	56750	
	2+50	56737	
	2+25	56722	

	2S	56808	
	1+75	56920	
	Station	**Reading**	**Time**
	1+50	56802	
	1+25	56820	
	1S	56920	
	0+75	56768	
	0+50	56802	
	0+25	56892	
B/L	0+00	56794	12:56
Base Station		56779	12:59
Base Station		56771	1:31
LO	0+00	56776	1:42
	0+25N	56734	
	0+50	56709	
	0+75	56649	
	1N	56715	
	1+25	56655	
	1+50	56716	
	1+75	56748	
	2N	56703	
	2+25	56805	
	2+50	56713	
	2+75	56703	
	3N	56775	
	3+25	56770	
	3+50	56789	
	3+75	56766	
	4N	56764	
	4+25	56796	
	4+50	56847	
	4+75	56826	
	5N	56804	1:58
L1E	5N	56974	2:00
	4+75	56985	
	4+50	56956	
	4+25	56975	
	3+50	56912	
	3+25	56845	
	3N	56865	
	2+75	56835	
	2+50	56788	

	2+25	56853	
	2N	56824	
	Station	**Reading**	**Time**
	1+75	56767	
	1+50	56718	
	1+25	56765	
	1N	56702	
	0+75	56747	
	0+50	56740	
	0+25	56650	
B/L	0+00	56690	2:16
L1E	0+25S	56580	
	0+50	56590	
	0+75	56628	
	1S	56545	
	1+25	56500	
	1+50	56520	
	1+75	56448	
	2S	56545	
	2+25	56470	
	2+50	56462	
	2+75	56650	
	3S	56944	
	3+25	56578	
	3+50	56682	
	3+75	56662	
	4S	56565	
	4+25	56703	
	4+50	56545	
	4+75	56462	
	5S	56470	2:37
LO	5S	56464	
	4+75	56555	
	4+50	56500	
	2S	56426	
	4S	56540	
	3+75	56622	
	3+50	56593	
	3+25	56669	
	3S	56695	
	2+75	56612	
	2+75	56612	
	2+50	56645	
	2+25	56675	

	2S	56645	
	1+75	56748	
	1+50	56715	
	Station	**Reading**	**Time**
	1+25	56752	
	1S	56653	
	0+75	56745	
	0+50	56632	
	0+25	56700	
	B/L	56742	3:07
LIW	0+00	56606	3:11
	0+25S	56620	
	0+50	56632	
	0+75	56664	
	1S	56671	
	1+25	56668	
	1+50	56725	
	1+75	56650	
	2S	56645	
	2+25	56725	
	2+50	56652	
	2+75	56655	
	3S	56739	
	3+25	56655	
	3+50	56750	
	3+75	56784	
	4S	56728	
	4+25	56714	
	4+50	56642	
	4+75	56683	
	5S	56700	3:26
Base Station		56794	3:42

KAP 1-6 CLAIMS
VLF-EM SURVEY READINGS

	IN PHASE	QUADRATURE
Line 1+00W		
B/L	+5	+2
0+25S	0	+3
0+50	-3	+2
0+75	-3	+3
1S	-2	+3
1+25	-2	+1
1+50	-3	+1
1+75	-7	+1
2S	-8	0
2+25	-13	-5
2+50	-5	+2
2+75	0	+1
3S	-3	+1
3+25	-7	+4
3+50	-19	+2
3+75	-24	-1
4S	-22	-2
4+25	-12	0
4+50	-5	+5
4+75	0	+6
5S	-	-
Line O		
5S	+1	0
4+75	0	+2
4+50	-5	+2
4+25	-9	-2
4S	-12	-2
3+75	-8	+4
3+50	-15	0
3+25	-13	+1
3S	-6	+4
2+75	+4	-5
2+50	0	+1
2+25	-5	-2
2S	-6	-4
1+75	0	-4
1+50	+9	-4

1+25	+13	-2
1S	+12	-1
	IN PHASE	**QUADRATURE**
0+75	+8	-5
0+50	+6	-6
0+25	+10	-3
B/L	+15	0
0+25	+18	+2
0+50	+13	-2
0+75	+15	0
IN	+14	+2
1+25	+9	0
1+50	+9	+2
1+75	+10	+6
2N	+8	+6
2+25	+5	+6
2+50	0	+6
2+75	0	+6
3N	+7	+8
3+2S	+8	+8
3+50	+11	+8
3+75	+12	+10
4N	+8	+8
4+25	+5	+8
4+50	+5	+8
4+75	+5	+6
5N	+6	+4

Line 1+00E

5+50N	+3	+3
5+25	+2	+6
5N	-5	+10
4+75	-5	+11
4+50	-3	+10
4+25	+2	+10
4N	+5	+11
3+75	+8	+12
3+50	+7	+11
3+25	+11	+11
3N	-7	+8
2+75	-14	+5
2+50	-8	+6
2+25	-5	+5
2N	-2	+4

1+75	+2	+3
1+50	+4	+3
1+25	-2	0

	IN PHASE	QUADRATURE
1N	-1	-3
0+75	+5	0
0+50N	+7	0
0+25	+12	+1
B/L	+17	+2
0+25S	+16	+1
0+50	+15	-2
0+75	+17	+1
1S	+13	-1
1+25	+17	+2
1+50	+22	+2
1+75	+20	+2
2S	+14	+2
2+25	+12	+2
2+50	+9	+5
2+75	0	+4
3S	-16	-2
3+25	-15	-2
3+50	-12	-2
3+75	-7	0
4S	0	+2
4+25	+4	+2
4+50	+2	-1
4+75	+5	+2
5S	+4	+1

Line 2+00E

5S	+8	+12
4+75	+12	+3
4+50	+8	+4
4+25	+7	+4
4S	+3	+2
3+75	0	+2
3+50	-3	0
3+25	-5	+2
3S	-11	-2
2+75	0	+4
2+50	+6	+7
2+25	+11	+8
2S	+10	+5

1+75	+14	+4
1+50	+18	+3

	IN PHASE	QUADRATURE
1+25	+16	+2
1S	+18	+2
0+75	+15	0
0+50	+13	-2
0+25	+12	-2
B/L	+13	0
0+25N	+13	+2
0+50	+10	+1
0+75	+5	-2
1N	-2	-4
1+25	-4	-2
1+50	-7	-2
1+75	-6	0
2N	0	+6
2+25	-7	+4
2+50	-14	+3
2+75	-3	+10
3+25	-15	+7
3+50	+4	+6
3+75	0	+8
4N	+6	+10
4+25	+6	+10
4+50	+6	+10
4+75	+5	+11
5N	+3	+8
5+25N	+5	+6

Line 3+00E

5S	+14	+1
4+75	+13	+3
4+50	+12	+4
4+25	+8	+6
4S	+8	+7
3+75	+7	+6
3+50	+5	+5
3+25	0	+3
3S	-5	0
2+75	-10	-3
2+50	-5	+2

2+25	+3	+5
2S	+5	+6
1+75	+3	+2
1+50	+12	+4
	IN PHASE	**QUADRATURE**
1S	+12	+3
0+75S	+12	+2
0+50	+12	0
0+25	+15	0
B/L	+11	-2
0+25N	+10	+1
0+50	+7	-4
0+75	+5	0
1N	+4	0
1+25	-5	-5
1+50	-10	-6
1+75	-15	-8
2N	-15	-3
2+25	-5	+2
2+50	+12	+12
2+75	+5	+12
3N	0	+10
3+25	-2	+9
3+50	-2	+8
3+75	+5	+8
4N	+8	+8
4+25	+4	+8
4+50	+5	+10
4+75	+3	+10
5N	+3	+9
5+25N	+3	+10

Line 4+00E

5+25N	10	+8
5N	0	+8
4+75	-4	+8
4+50	-4	+8
4+25	-1	+9
4N	-5	+8
3+75	-12	+6
3+50	-13	+6
3+25	-11	+5
3N	-2	+8
2+75	+3	+10
2+50	-1	+3

2+25	-1	+4
2N	0	-1
1+75	+3	+1
1+50	+8	0
	IN PHASE	**QUADRATURE**
1+25N	+10	-2
1N	+12	0
0+75	+13	0
0+50	+15	+2
0+25N	+18	+2
B/L	+14	+2
0+25S	+14	+1
0+50	+14	+1
0+75	+15	+6
1S	+13	+6
1+25	+4	+2
1+50	-2	+2
1+75	-5	0
2S	0	+6
2+25	+2	+8
2+50	+2	+6
2+75	-4	+4
3S	0	+5
3+25	+5	+7
3+50	+7	+5
3+75	+9	+8
4S	+10	+6
4+25	+10	+6
4+50	+8	+2
4+75	+10	+2
5S	+12	+2

Line 5+00E

5+25N	+7	+8
5N	+7	+10
4+75	+2	+8
4+50	-6	+9
4+25	-15	+8
4N	-15	+8
3+75	-18	+6
3+50	-8	+8
3+25	-15	0
3N	-8	+4

2+75	0	+3
2+50	+8	+4
2+25	+7	+4
2N	+8	0
	IN PHASE	**QUADRATURE**
1+75	+10	+1
1+50	+15	+1
1+25	+15	+1
1N	+18	0
0+75	+16	-4
0+50	+19	+3
0+25	+21	+4
B/L	+20	+2
0+25S	+18	+6
0+50	+14	+4
0+75	+14	+2
1S	+6	+4
1+25	+2	+2
1+50	+5	+5
1+75	+6	+8
2S	+6	+8
2+25	+8	+11
2+50	+8	+9
2+75	+4	+4
3S	+7	+8
3+25	+8	+8
3+75	+9	+6
4S	+10	+6
4+25	+10	+4
4+50	+10	+4
4+75	+10	+4
5S	+13	+7
5+25	+15	+7
5+50S	+15	+8

APPENDIX C

KAP CLAIMS

ANALYTICAL DATA

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: DISCOVERY CONSULTANTS

P.O. BOX 933
VERNON, B.C.
V1T 6M8

A0117435

Comments: ATTN: TOM CARPENTER

CERTIFICATE A0117435

(BPI) - DISCOVERY CONSULTANTS

Project: 945
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 05-JUN-2001.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
225	12	Run as received
229	12	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Ag-ICP41	11	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
Al-ICP41	11	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
As-ICP41	11	As ppm: 32 element, soil & rock	ICP-AES	2	10000
B-ICP41	11	B ppm: 32 element, rock & soil	ICP-AES	10	10000
Ba-ICP41	11	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
Be-ICP41	11	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
Bi-ICP41	11	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
Ca-ICP41	11	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
Cd-ICP41	11	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
Co-ICP41	11	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
Cr-ICP41	11	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
Cu-ICP41	11	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
Fe-ICP41	11	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
Ga-ICP41	11	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
Hg-ICP41	11	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
K-ICP41	11	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
La-ICP41	11	La ppm: 32 element, soil & rock	ICP-AES	10	10000
Mg-ICP41	11	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
Mn-ICP41	11	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
Mo-ICP41	11	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
Na-ICP41	11	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
Ni-ICP41	11	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
P-ICP41	11	P ppm: 32 element, soil & rock	ICP-AES	10	10000
Pb-ICP41	11	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
S-ICP41	11	S %: 32 element, rock & soil	ICP-AES	0.01	10.00
Sb-ICP41	11	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
Sc-ICP41	11	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
Sr-ICP41	11	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
Ti-ICP41	11	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
Tl-ICP41	11	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
U-ICP41	11	U ppm: 32 element, soil & rock	ICP-AES	10	10000
V-ICP41	11	V ppm: 32 element, soil & rock	ICP-AES	1	10000
W-ICP41	11	W ppm: 32 element, soil & rock	ICP-AES	10	10000
Zn-ICP41	11	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

ALS Chemex
Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: DISCOVERY CONSULTANTS

P.O. BOX 933
VERNON, B.C.
V1T 6M8

Project : 945
Comments: ATTN: TOM CARPENTER

Page Number : 1-A
Total Pages : 1
Certificate Date: 05-JUN-2001
Invoice No. : 10117435
P.O. Number :
Account : BPI

CERTIFICATE OF ANALYSIS A0117435

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
PTS 01	225	229	32.0	0.41	14	< 10	30	1.0	2	1.16	1.5	14	139	4	13.40	10	1	0.08	130	0.30	685
PTS 02	225	229	< 0.2	0.23	18	< 10	20	1.5	2	0.80	3.5	15	150	11	>15.00	20	< 1	0.05	120	0.22	775
PTS 03	225	229	< 0.2	0.76	22	< 10	110	2.0	< 2	9.74	1.5	15	151	< 1	8.95	10	< 1	0.16	330	1.46	625
PTS 04	225	229	0.2	0.41	26	< 10	40	1.5	< 2	3.64	0.5	7	97	9	5.82	< 10	< 1	0.08	270	0.57	360
PTS 06	225	229	< 0.2	0.36	30	< 10	40	1.5	12	0.72	2.5	14	171	< 1	>15.00	10	< 1	0.07	140	0.23	1090
PTS 12	225	229	< 0.2	0.35	58	< 10	20	2.0	< 2	0.93	< 0.5	< 1	40	< 1	2.19	< 10	< 1	0.04	200	0.20	265
PTS 13	225	229	< 0.2	0.35	38	< 10	60	1.5	8	2.08	0.5	14	207	< 1	13.65	10	< 1	0.11	240	0.36	580
PTS 17	225	229	< 0.2	0.38	66	< 10	30	2.0	< 2	0.79	< 0.5	< 1	77	< 1	4.32	< 10	< 1	0.07	320	0.21	365
PTS 18	225	229	< 0.2	0.57	56	< 10	30	2.0	6	1.20	< 0.5	1	52	< 1	3.66	< 10	< 1	0.06	370	0.22	660
PTS 19	225	229	not/as	not/as	not/as	not/as	not/as	not/as	not/as	not/as	not/as	not/as	not/as	not/as	not/as	not/as	not/as	not/as	not/as	not/as	not/as
PTS 27	225	229	0.2	0.44	14	< 10	80	1.5	20	0.49	2.0	14	112	2	>15.00	< 10	< 1	0.09	40	0.37	700
PTS 31	225	229	< 0.2	0.45	88	< 10	50	3.0	< 2	0.83	0.5	< 1	96	< 1	11.65	10	< 1	0.07	220	0.13	1190

CERTIFICATION: _____

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: DISCOVERY CONSULTANTS

P.O. BOX 933
VERNON, B.C.
V1T 6M8

Project : 945
Comments: ATTN: TOM CARPENTER

Page Number : 1-B
Total Pages : 1
Certificate Date: 05-JUN-2001
Invoice No. : 10117435
P.O. Number :
Account : BPI

CERTIFICATE OF ANALYSIS A0117435

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
PTS 01	225	229	< 1	0.06	30	3110	8	< 0.01	< 2	4	108	0.18	30	10	459	< 10	20
PTS 02	225	229	< 1	0.04	28	2120	4	0.03	10	3	82	0.21	20	30	777	< 10	24
PTS 03	225	229	< 1	0.20	39	>10000	12	0.02	< 2	9	1370	0.13	< 10	< 10	288	< 10	44
PTS 04	225	229	1	0.11	24	>10000	4	< 0.01	< 2	5	394	0.16	< 10	< 10	168	< 10	32
PTS 06	225	229	2	0.06	37	1300	8	< 0.01	< 2	4	68	0.30	< 10	10	561	< 10	34
PTS 12	225	229	1	0.04	1	1280	< 2	< 0.01	< 2	3	43	0.45	< 10	< 10	73	< 10	12
PTS 13	225	229	< 1	0.10	38	5970	8	< 0.01	< 2	3	207	0.24	< 10	< 10	430	< 10	34
PTS 17	225	229	< 1	0.06	2	1650	6	< 0.01	< 2	6	51	0.47	< 10	< 10	103	< 10	14
PTS 18	225	229	2	0.05	3	1900	2	< 0.01	< 2	6	48	0.37	< 10	< 10	91	< 10	20
PTS 19	225	229	not/as	not/as	not/as	not/as	not/as	not/as	not/as	not/as	not/as	not/as	not/as	not/as	not/as	not/as	not/as
PTS 27	225	229	3	0.03	20	1230	50	0.28	< 2	1	26	0.12	< 10	< 10	544	70	64
PTS 31	225	229	1	0.06	4	1410	6	< 0.01	2	6	56	0.72	< 10	< 10	311	30	18

CERTIFICATION: _____

ALS Chemex
Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: DISCOVERY CONSULTANTS

P.O. BOX 933
VERNON, B.C.
V1T 6M8

Project: 945
Comments: ATTN: TOM CARPENTER

QC Page #: 1-A
Tot QC Pg: 1
Date: 05-JUN-2001
Invoice #: I0117435
P.O. #:

BPI

QC DATA OF CERTIFICATE A0117435

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
G2000	Std1	1	3.6	1.84	466	< 10	540	1.0	4	0.53	6.5	25	71	313	3.88	< 10	< 1	0.45	10	0.71	590
CHEMEX MEAN	---	---	3.4	1.89	482	10	560	0.9	< 2	0.52	7.6	25	76	303	3.80	< 10	< 1	0.47	23	0.68	568

CERTIFICATION: _____

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: DISCOVERY CONSULTANTS

P.O. BOX 933
VERNON, B.C.
V1T 6M8

Project: 945
Comments: ATTN: TOM CARPENTER

QC Page #: 1-B
Tot QC Pg: 1
Date: 05-JUN-2001
Invoice #: 10117435
P.O. #: BPI

QC DATA OF CERTIFICATE A0117435

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
G2000	Std1	1	7	0.03	290	870	688	0.26	24	7	59	0.05	< 10	< 10	66	10	1290
CHEMEX MEAN	---	---	6	0.03	286	949	670	0.26	23	8	62	0.05	< 10	< 10	69	< 10	1255

CERTIFICATION: _____

ALS Chemex
Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: DISCOVERY CONSULTANTS

P.O. BOX 933
VERNON, B.C.
V1T 6M8

A0118900

Comments: ATTN: TOM CARPENTER

CERTIFICATE A0118900

(BPI) - DISCOVERY CONSULTANTS

Project: 945
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 29-JUN-2001.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
LOG-22	4	Samples received without barcode
SCR-42	4	-180 micron screen - Save Minus
SCR-01	4	Screen - Save Plus Charge
229	4	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Au-AA23	4	Au-AA23 : Au ppb: Fuse 30 grams	FA-AAS	5	10000
Ag-ICP41	4	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
Al-ICP41	4	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
As-ICP41	4	As ppm: 32 element, soil & rock	ICP-AES	2	10000
B-ICP41	4	B ppm: 32 element, rock & soil	ICP-AES	10	10000
Ba-ICP41	4	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
Be-ICP41	4	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
Bi-ICP41	4	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
Ca-ICP41	4	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
Cd-ICP41	4	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
Co-ICP41	4	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
Cr-ICP41	4	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
Cu-ICP41	4	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
Fe-ICP41	4	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
Ga-ICP41	4	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
Hg-ICP41	4	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
K-ICP41	4	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
La-ICP41	4	La ppm: 32 element, soil & rock	ICP-AES	10	10000
Mg-ICP41	4	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
Mn-ICP41	4	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
Mo-ICP41	4	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
Na-ICP41	4	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
Ni-ICP41	4	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
P-ICP41	4	P ppm: 32 element, soil & rock	ICP-AES	10	10000
Pb-ICP41	4	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
S-ICP41	4	S %: 32 element, rock & soil	ICP-AES	0.01	10.00
Sb-ICP41	4	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
Sc-ICP41	4	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
Sr-ICP41	4	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
Ti-ICP41	4	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
Tl-ICP41	4	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
U-ICP41	4	U ppm: 32 element, soil & rock	ICP-AES	10	10000
V-ICP41	4	V ppm: 32 element, soil & rock	ICP-AES	1	10000
W-ICP41	4	W ppm: 32 element, soil & rock	ICP-AES	10	10000
Zn-ICP41	4	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: DISCOVERY CONSULTANTS

P.O. BOX 933
VERNON, B.C.
V1T 6M8

Project : 945
Comments: ATTN: TOM CARPENTER

Page Number : 1-A
Total Pages : 1
Certificate Date: 29-JUN-2001
Invoice No. : I0118900
P.O. Number :
Account : BPI

CERTIFICATE OF ANALYSIS A0118900

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
945-S-001	9400 9406	< 5	< 0.2	2.47	< 2	< 10	170	< 0.5	< 2	0.55	< 0.5	5	16	24	2.05	< 10	< 1	0.10	20	0.27
945-S-002	9400 9406	< 5	< 0.2	2.34	< 2	< 10	170	< 0.5	< 2	0.55	< 0.5	3	15	21	1.69	< 10	< 1	0.10	10	0.26
945-S-003	9400 9406	< 5	< 0.2	2.22	< 2	< 10	150	< 0.5	< 2	0.47	< 0.5	4	13	13	1.80	< 10	< 1	0.08	10	0.24
945-S-004	9400 9406	< 5	< 0.2	1.46	< 2	< 10	120	< 0.5	< 2	0.50	< 0.5	3	11	11	1.42	< 10	< 1	0.07	10	0.21

CERTIFICATION:

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: DISCOVERY CONSULTANTS

P.O. BOX 933
VERNON, B.C.
V1T 6M8

Project : 945
Comments: ATTN: TOM CARPENTER

Page Number :1-B
Total Pages :1
Certificate Date: 29-JUN-2001
Invoice No. :10118900
P.O. Number :
Account :BPI

CERTIFICATE OF ANALYSIS A0118900

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
945-S-001	9400 9406	510	3	0.01	11	890	4	0.02	2	3	72	0.08	< 10	< 10	39	< 10	26
945-S-002	9400 9406	175	1	0.01	10	950	4	0.02	< 2	2	72	0.06	< 10	< 10	28	< 10	24
945-S-003	9400 9406	255	1	0.01	8	720	< 2	0.02	< 2	2	69	0.06	< 10	< 10	32	< 10	22
945-S-004	9400 9406	330	1	0.01	7	1170	< 2	0.02	< 2	1	67	0.05	< 10	< 10	27	< 10	22

CERTIFICATION:

ALS Chemex
Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: DISCOVERY CONSULTANTS

P.O. BOX 933
VERNON, B.C.
V1T 6M8

A0121182

Comments: ATTN: TOM CARPENTER

CERTIFICATE A0121182

(BPI) - DISCOVERY CONSULTANTS

Project: 945
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 31-JUL-2001.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
SCR-42	21	-180 micron screen - Save Minus
SCR-01	21	Screen - Save Plus Charge
LOG-22	21	Samples received without barcode
229	21	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
1433	21	Weight of received sample	BALANCE	0.01	1000.0
Au-AA23	21	Au-AA23 : Au ppb: Fuse 30 grams	FA-AAS	5	10000
Ag-ICP41	21	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
Al-ICP41	21	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
As-ICP41	21	As ppm: 32 element, soil & rock	ICP-AES	2	10000
B-ICP41	21	B ppm: 32 element, rock & soil	ICP-AES	10	10000
Ba-ICP41	21	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
Be-ICP41	21	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
Bi-ICP41	21	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
Ca-ICP41	21	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
Cd-ICP41	21	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
Co-ICP41	21	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
Cr-ICP41	21	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
Cu-ICP41	21	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
Fe-ICP41	21	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
Ga-ICP41	21	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
Hg-ICP41	21	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
K-ICP41	21	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
La-ICP41	21	La ppm: 32 element, soil & rock	ICP-AES	10	10000
Mg-ICP41	21	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
Mn-ICP41	21	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
Mo-ICP41	21	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
Na-ICP41	21	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
Ni-ICP41	21	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
P-ICP41	21	P ppm: 32 element, soil & rock	ICP-AES	10	10000
Pb-ICP41	21	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
S-ICP41	21	S %: 32 element, rock & soil	ICP-AES	0.01	10.00
Sb-ICP41	21	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
Sc-ICP41	21	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
Sr-ICP41	21	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
Ti-ICP41	21	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
Tl-ICP41	21	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
U-ICP41	21	U ppm: 32 element, soil & rock	ICP-AES	10	10000
V-ICP41	21	V ppm: 32 element, soil & rock	ICP-AES	1	10000
W-ICP41	21	W ppm: 32 element, soil & rock	ICP-AES	10	10000
Zn-ICP41	21	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: DISCOVERY CONSULTANTS

P.O. BOX 933
VERNON, B.C.
V1T 6M8

Project : 945
Comments: ATTN: TOM CARPENTER

Page Number :1-A
Total Pages :1
Certificate Date: 31-JUL-2001
Invoice No. :10121182
P.O. Number :
Account :BPI

CERTIFICATE OF ANALYSIS A0121182

SAMPLE	PREP CODE	Weight Kg	Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm
945-SS-01	9406 9407	0.28	< 5	< 0.2	2.40	< 2	< 10	90	< 0.5	< 2	0.08	< 0.5	3	9	13	1.54	< 10	< 1	0.05	< 10
945-SS-03	9406 9407	0.32	< 5	< 0.2	2.23	< 2	< 10	120	0.5	< 2	0.14	< 0.5	4	11	14	1.70	< 10	< 1	0.05	10
945-SS-05	9406 9407	0.22	< 5	< 0.2	2.04	< 2	< 10	70	< 0.5	< 2	0.15	< 0.5	4	9	8	1.32	< 10	< 1	0.11	< 10
945-SS-07	9406 9407	0.30	< 5	< 0.2	2.15	< 2	< 10	70	0.5	< 2	0.15	< 0.5	4	11	11	1.78	< 10	< 1	0.04	10
945-SS-09	9406 9407	0.28	< 5	< 0.2	1.11	< 2	< 10	70	< 0.5	< 2	0.33	< 0.5	3	10	7	1.26	< 10	< 1	0.06	10
945-SS-11	9406 9407	0.30	< 5	< 0.2	2.80	< 2	< 10	140	0.5	< 2	0.16	< 0.5	3	13	15	2.02	< 10	< 1	0.05	10
945-SS-13	9406 9407	0.30	< 5	< 0.2	1.92	< 2	< 10	140	< 0.5	< 2	0.34	< 0.5	5	16	9	2.02	< 10	< 1	0.09	10
945-SS-15	9406 9407	0.16	5	< 0.2	2.24	< 2	< 10	180	0.5	< 2	0.39	< 0.5	15	17	17	2.93	10	< 1	0.08	10
945-SS-17	9406 9407	0.30	< 5	< 0.2	1.78	< 2	< 10	40	< 0.5	< 2	0.14	< 0.5	3	10	7	1.59	< 10	< 1	0.02	10
945-SS-19	9406 9407	0.26	< 5	< 0.2	1.35	< 2	< 10	70	< 0.5	< 2	0.23	< 0.5	3	11	6	1.69	< 10	< 1	0.03	10
945-SS-21	9406 9407	0.26	< 5	< 0.2	2.37	< 2	< 10	70	< 0.5	< 2	0.06	< 0.5	3	8	9	1.50	< 10	< 1	0.03	< 10
945-SS-23	9406 9407	0.28	5	< 0.2	1.71	< 2	< 10	110	< 0.5	< 2	0.06	< 0.5	2	6	8	0.98	< 10	< 1	0.03	< 10
945-SS-25	9406 9407	0.38	< 5	< 0.2	0.97	< 2	< 10	70	< 0.5	< 2	0.37	< 0.5	3	10	8	1.38	< 10	< 1	0.04	10
945-SS-27	9406 9407	0.28	< 5	< 0.2	2.76	< 2	< 10	60	0.5	< 2	0.10	< 0.5	3	12	10	1.66	< 10	< 1	0.03	10
945-SS-29	9406 9407	0.40	< 5	< 0.2	1.33	< 2	< 10	90	< 0.5	< 2	0.24	< 0.5	3	11	9	1.72	< 10	< 1	0.05	10
945-SS-31	9406 9407	0.42	< 5	< 0.2	0.71	< 2	< 10	50	< 0.5	< 2	0.35	< 0.5	2	8	5	1.14	< 10	< 1	0.05	10
945-SS-33	9406 9407	0.32	< 5	< 0.2	0.84	< 2	< 10	80	< 0.5	< 2	0.34	< 0.5	3	11	6	1.40	< 10	< 1	0.05	10
945-SS-35	9406 9407	0.36	< 5	< 0.2	0.72	< 2	< 10	60	< 0.5	< 2	0.43	< 0.5	2	9	5	1.08	< 10	< 1	0.08	20
945-SS-37	9406 9407	0.20	< 5	< 0.2	2.00	< 2	< 10	160	0.5	< 2	0.34	< 0.5	8	15	13	2.45	10	< 1	0.07	10
945-SS-39	9406 9407	0.28	< 5	< 0.2	2.03	< 2	< 10	170	0.5	< 2	0.41	< 0.5	5	16	14	2.28	< 10	< 1	0.09	10
945-SS-41	9406 9407	0.28	< 5	< 0.2	0.86	< 2	< 10	70	< 0.5	< 2	0.45	< 0.5	3	10	6	1.42	< 10	< 1	0.06	20

CERTIFICATION:

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: DISCOVERY CONSULTANTS

P.O. BOX 933
VERNON, B.C.
V1T 6M8

Project : 945
Comments: ATTN: TOM CARPENTER

Page Number : 1-B
Total Pages : 1
Certificate Date: 31-JUL-2001
Invoice No. : I0121182
P.O. Number :
Account : BPI

CERTIFICATE OF ANALYSIS A0121182

SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
945-SS-01	9406 9407	0.13	135	< 1	0.01	8	1490	4	0.01	< 2	1	12	0.09	< 10	< 10	28	< 10	32
945-SS-03	9406 9407	0.19	90	< 1	0.01	10	1300	4	< 0.01	< 2	1	26	0.09	< 10	< 10	33	< 10	30
945-SS-05	9406 9407	0.16	195	< 1	0.07	7	830	2	< 0.01	< 2	< 1	19	0.07	< 10	< 10	21	< 10	30
945-SS-07	9406 9407	0.15	65	< 1	0.01	8	1580	< 2	< 0.01	< 2	2	22	0.07	< 10	< 10	34	< 10	20
945-SS-09	9406 9407	0.25	185	< 1	0.01	6	1180	< 2	< 0.01	< 2	1	44	0.07	< 10	< 10	26	< 10	24
945-SS-11	9406 9407	0.14	70	< 1	0.01	9	1690	2	0.01	< 2	1	25	0.10	< 10	< 10	37	< 10	26
945-SS-13	9406 9407	0.32	335	< 1	0.01	8	480	4	< 0.01	< 2	1	58	0.09	< 10	< 10	42	< 10	24
945-SS-15	9406 9407	0.30	1010	< 1	0.01	9	900	4	0.01	< 2	1	73	0.09	< 10	< 10	76	< 10	40
945-SS-17	9406 9407	0.11	85	< 1	< 0.01	7	1940	4	< 0.01	< 2	1	18	0.07	< 10	< 10	33	< 10	22
945-SS-19	9406 9407	0.13	55	< 1	< 0.01	6	1710	< 2	< 0.01	< 2	< 1	32	0.06	< 10	< 10	36	< 10	14
945-SS-21	9406 9407	0.10	115	< 1	0.01	6	1600	2	0.01	< 2	1	10	0.09	< 10	< 10	28	< 10	24
945-SS-23	9406 9407	0.08	35	< 1	0.01	5	510	4	< 0.01	< 2	< 1	13	0.08	< 10	< 10	19	< 10	14
945-SS-25	9406 9407	0.24	95	< 1	< 0.01	7	1520	2	< 0.01	< 2	< 1	43	0.06	< 10	< 10	38	< 10	24
945-SS-27	9406 9407	0.11	55	< 1	0.01	7	1820	2	< 0.01	< 2	2	16	0.08	< 10	< 10	32	< 10	18
945-SS-29	9406 9407	0.21	90	< 1	0.01	7	980	2	< 0.01	< 2	< 1	30	0.08	< 10	< 10	39	< 10	26
945-SS-31	9406 9407	0.21	90	< 1	< 0.01	5	1330	2	< 0.01	< 2	< 1	44	0.06	< 10	< 10	28	< 10	20
945-SS-33	9406 9407	0.24	105	< 1	0.01	7	1320	2	< 0.01	< 2	< 1	45	0.06	< 10	< 10	33	< 10	26
945-SS-35	9406 9407	0.25	110	< 1	0.01	6	1580	2	< 0.01	< 2	< 1	59	0.06	< 10	< 10	28	< 10	22
945-SS-37	9406 9407	0.25	470	< 1	0.01	8	330	4	0.01	< 2	1	51	0.09	< 10	< 10	66	< 10	22
945-SS-39	9406 9407	0.30	380	< 1	0.01	10	630	4	0.01	< 2	1	59	0.09	< 10	< 10	47	< 10	30
945-SS-41	9406 9407	0.25	160	< 1	0.01	6	1370	2	< 0.01	< 2	< 1	62	0.06	< 10	< 10	35	< 10	24

CERTIFICATION:

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: DISCOVERY CONSULTANTS

P.O. BOX 933
VERNON, B.C.
V1T 6M8

Project: 945
Comments: ATTN: TOM CARPENTER

QC Page #: 1-A
Tot QC Pg: 1
Date: 31-JUL-2001
Invoice #: 10121182
P.O. #: BPI

QC DATA OF CERTIFICATE A0121182

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Weight Kg	Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm
G2000	Std	1	-----	-----	3.4	1.73	508	< 10	190	1.0	< 2	0.52	7.0	26	69	322	3.83	10	< 1	0.48	20
CHEMEX MEAN	---	---	-----	-----	3.4	1.89	482	10	560	0.9	< 2	0.52	7.6	25	76	303	3.80	< 10	< 1	0.47	23
LT-2	Std	1	-----	235	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	230	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
945-SS-01	Dup	1-01	-----	< 5	< 0.2	2.52	< 2	< 10	100	0.5	< 2	0.08	< 0.5	3	10	10	1.61	< 10	< 1	0.05	< 10
	Orig	1-01	0.28	< 5	< 0.2	2.40	< 2	< 10	90	< 0.5	< 2	0.08	< 0.5	3	9	13	1.54	< 10	< 1	0.05	< 10

CERTIFICATION: _____

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: DISCOVERY CONSULTANTS

P.O. BOX 933
VERNON, B.C.
V1T 6M8

Project: 945
Comments: ATTN: TOM CARPENTER

QC Page #: 1-B
Tot QC Pg: 1
Date: 31-JUL-2001
Invoice #: I0121182
P.O. #: BPI

QC DATA OF CERTIFICATE A0121182

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
G2000	Std1	1	0.70	560	5	0.04	299	930	674	0.28	22	7	58	0.04	< 10	< 10	68	< 10	1285
CHEMEX MEAN	---	---	0.68	568	6	0.03	286	949	670	0.26	23	8	62	0.05	< 10	< 10	69	< 10	1255
LT-2	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
945-SS-01	Dup	1-01	0.14	145	< 1	0.01	8	1670	2	0.01	< 2	1	12	0.10	< 10	< 10	30	< 10	34
	Orig	1-01	0.13	135	< 1	0.01	8	1490	4	0.01	< 2	1	12	0.09	< 10	< 10	28	< 10	32

CERTIFICATION: _____

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: DISCOVERY CONSULTANTS

P.O. BOX 933
VERNON, B.C.
V1T 6M8

A0126484

Comments: ATTN: TOM CARPENTER

CERTIFICATE A0126484

(BPI) - DISCOVERY CONSULTANTS

Project: 945
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 17-OCT-2001.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
SCR-42	16	-180 micron screen - Save Minus
SCR-01	16	Screen - Save Plus Charge
LOG-22	16	Samples received without barcode

ANALYTICAL PROCEDURES

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
WEI-21	16	Weight of received sample	BALANCE	0.01	1000.0
Au-AA23	16	Au-AA23 : Au ppb: Fuse 30 grams	FA-AAS	5	10000

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: DISCOVERY CONSULTANTS

P.O. BOX 933
VERNON, B.C.
V1T 6M8

Project : 945
Comments: ATTN: TOM CARPENTER

Page Number :1
Total Pages :1
Certificate Date: 17-OCT-2001
Invoice No. :I0126484
P.O. Number :
Account :BPI

CERTIFICATE OF ANALYSIS A0126484

SAMPLE	PREP CODE	Weight Kg	Au ppb FA+AA
945-SS-042	9406 9407	0.22	< 5
945-SS-044	9406 9407	0.20	< 5
945-SS-045	9406 9407	0.26	< 5
945-SS-046	9406 9407	0.26	< 5
945-SS-047	9406 9407	0.20	< 5
945-SS-048	9406 9407	0.22	< 5
945-SS-049	9406 9407	0.32	< 5
945-SS-050	9406 9407	0.22	< 5
945-SS-051	9406 9407	0.28	< 5
945-SS-052	9406 9407	0.32	< 5
945-SS-053	9406 9407	0.38	< 5
945-SS-054	9406 9407	0.24	< 5
945-SS-055	9406 9407	0.22	< 5
945-SS-056	9406 9407	0.28	< 5
945-SS-057	9406 9407	0.32	< 5
945-SS-058	9406 9407	0.26	< 5
945-SS-059	-- --	-----	NotRcd

CERTIFICATION:

APPENDIX D

STIRLING CREEK

MAGNETOMETER DATA

ROCK SAMPLE DESCRIPTIONS

ANALYTICAL RESULTS

STIRLING CREEK
MAGNETOMETER SURVEY

Station	Reading	Time
0	56105	N/A
0+25m	56100	
0+50	56117	
0+75	56135	
1+00m	56129	
1+25	56220	
1+50	56001	
1+75	56132	
2+00m	56164	
2+25	56123	
2+50	56146	
2+75	55998	
3+00m	56068	
3+25	56325	
3+36	Junction	
3+50	56145	
3+75	56085	
4+00m	56112	
4+25	56135	
4+50	56213	
4+75	56445	
5+00m	56335	
5+25	55990	
5+50	56234	
5+75	56245	
6+00m	56165	
6+25	55985	
6+50	55953	
6+65	Middle of Creek	
6+75	56083	
7+00m	56117	
7+25	56175	
7+50	56245	
7+75	56194	
8+00m	56148	
8+25	56080	
8+50	56076	
8+75	56037	
9+00m	56045	
9+25	55995	Ditch
9+50	56066	
9+75	56320	
10+00m	56225	
0	56100	

STIRLING CREEK

Rock Descriptions

SC-01	Granite cut by oxide coated hairline fractures. Moderately epidotized. Jointed at ~120°/90° and 200°/30° E.
SC-02	At creek crossing below PTS-019. Large boulder of quartz in creek. Contains dark green fragments of chloritized material.
SC-03	Outcrop of epidotized gabbro on west side of creek and east side of road about 50 m north of creek crossing and west of PTS-019 sample site. Some open fractures with minor oxide. Similar material in road bed for about 50m north as rubble.
SC-04	Outcrop on west side of road. Highly altered gabbro. Epidotized with occasional quartz veinlets and open fractures.
SC-05	Hematitic alteration in granitic rock on fractures trending 255°/90° Similar rock without alteration 5m to west. Other altered material down hill to east. Possible fault zone.
SC-06	Hematitic granite boulder in area of possible fault. Numerous boulders in area including gabbro with hematitic fractures.
SC-07	Granite. Bleached with heavily limonitic fractures. Small pit dug on side if road.

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: DISCOVERY CONSULTANTS

P.O. BOX 933
VERNON, B.C.
V1T 6M8

A0126487

Comments: ATTN: TOM CARPENTER

CERTIFICATE A0126487

(BPI) - DISCOVERY CONSULTANTS

Project: 945
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 18-OCT-2001.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
PUL-31	7	Pulv. <250g to >85%/-75 micron
STO-21	7	Reject Storage-First 90 Days
LOG-22	7	Samples received without barcode
CRU-31	7	Crush to 70% minus 2mm
SPL-21	7	Splitting Charge

ANALYTICAL PROCEDURES

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
WEI-21	7	Weight of received sample	BALANCE	0.01	1000.0
Au-AA23	7	Au-AA23 : Au ppb: Fuse 30 grams	FA-AAS	5	10000

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: DISCOVERY CONSULTANTS

P.O. BOX 933
VERNON, B.C.
V1T 6M8

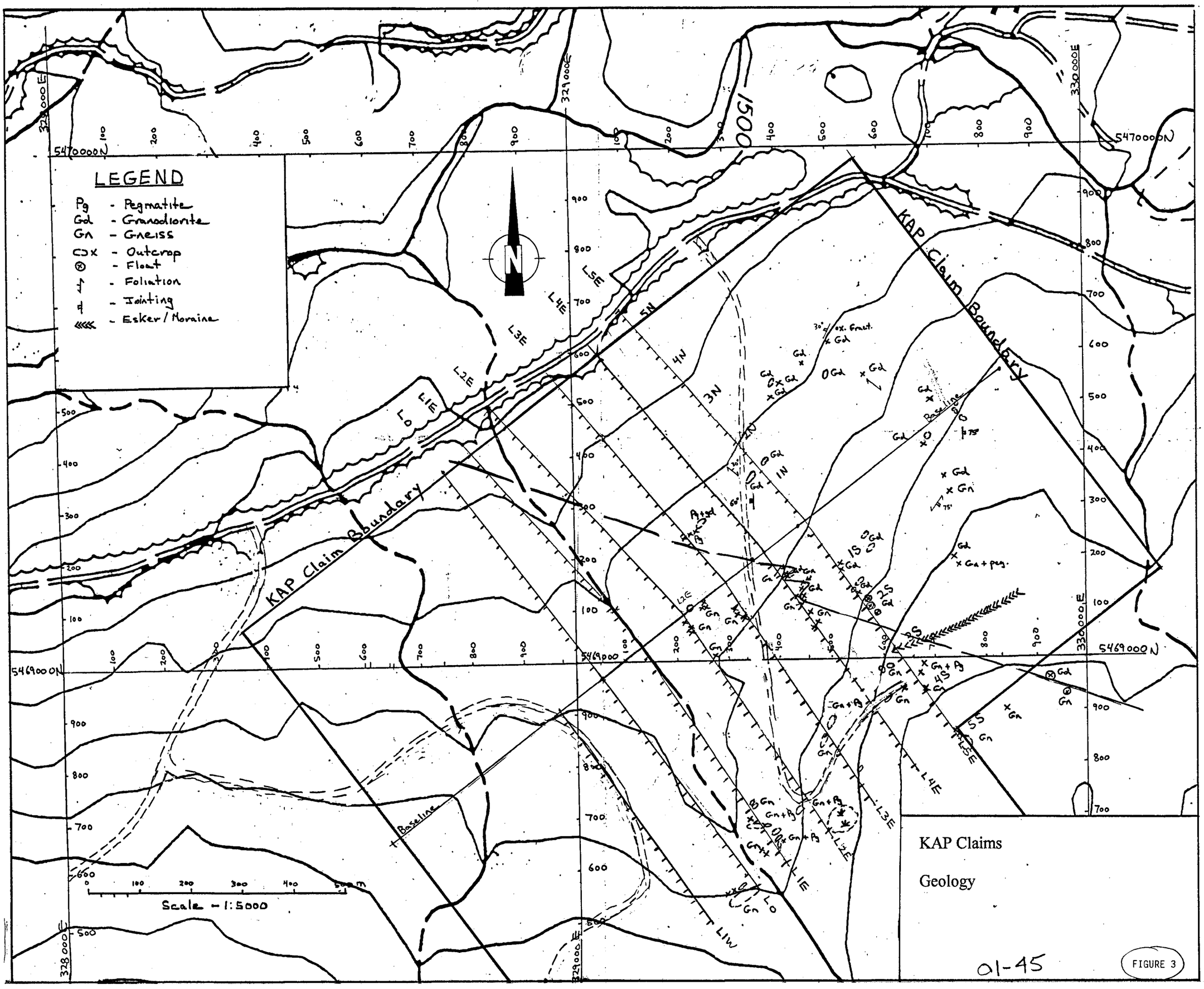
Project : 945
Comments: ATTN: TOM CARPENTER

Page Number :1
Total Pages :1
Certificate Date: 18-OCT-2001
Invoice No. :I0126487
P.O. Number :
Account :BPI

CERTIFICATE OF ANALYSIS A0126487

SAMPLE	PREP CODE	Weight Kg	Au ppb FA+AA
945-SC-1	9413 9402	1.00	< 5
945-SC-2	9413 9402	0.54	< 5
945-SC-3	9413 9402	0.68	< 5
945-SC-4	9413 9402	1.12	< 5
945-SC-5	9413 9402	0.98	< 5
945-SC-6	9413 9402	0.82	< 5
945-SC-7	9413 9402	0.82	< 5

CERTIFICATION:


LEGEND
Pg - Pegmatite
Gd - Granodiorite
Gn - Gneiss
Outcrop
Float
Foliation
Jointing
Esker / Moraine
KAP Claim Boundary
Baseline
Scale - 1:5000
KAP Claims
Geology
01-45
FIGURE 3

036 Soil Sample Location

Silt Sample Location

Pan Concentrate Location (2000 PAP sample)

<5 Value in ppb Au

KAP Claim Boundary

PTS-01

S-003

KAP-1

KAP-2

S-004

S-001

S-002

Baseline

Scale - 1:5000

KAP Claims

Geochemical Survey

01-45

FIGURE 4

LEGEND

> 1200 nT

> 1000 nT

> 800 nT

> 600 nT

> 500 nT

< 500 nT.

Datum - 56,000 nT(γ)

KAP Claim Boundary

Baseline

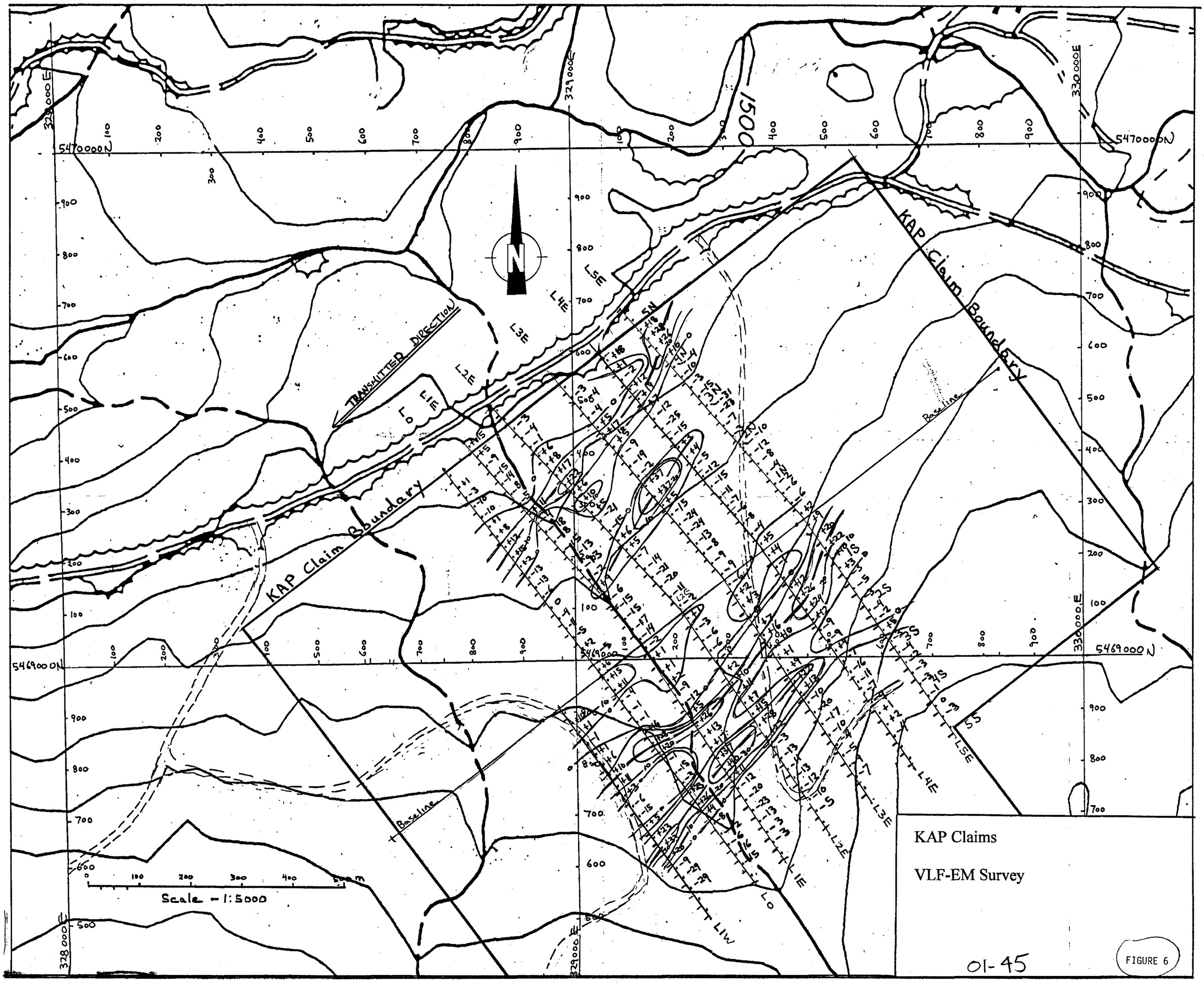
Scale - 1:5000

KAP Claims

Magnetometer Survey

01-45

FIGURE 5


KAP Claim Boundary
Baseline
TRANSMITTER DIRECTION
L0
L1E
L2E
L3E
L4E
L5E
L1S
L2S
L3S
L4S
L5S
L1W
5470000N
5469000N
329000E
330000E
328000E
Scale - 1:5000
KAP Claims
VLF-EM Survey
01-45
FIGURE 6

5505000

5505000

339,000E

340,000E

1400

1358 ·

1300

1200

1300

PTS-018
4 PPB Au

5504000

5504000

SCPC-04

SCPC-03

Start of Mag Survey

5503000

5503000

SCPC-02

SC-07

SC-05

SC-06

SC-03

SC-02

SC-01

SC-04

PTS-019 > 10,000 ppb Au

SCPC-01

End of Mag. Survey

DC 88078

N

Gb	Gabbro	○ ×	Outcrop
Di	Diorite	— —	Geological Contact
Gr	Granite	SC-01	Rock Sample
Gd	Granodiorite	SCPC-01	Pan Concentrate - 2001
		PTS-019	" " - 2000.

0 100 200 300 400 500

Scale 1:5,000

STIRLING CREEK

Geology

01-45

FIGURE 11

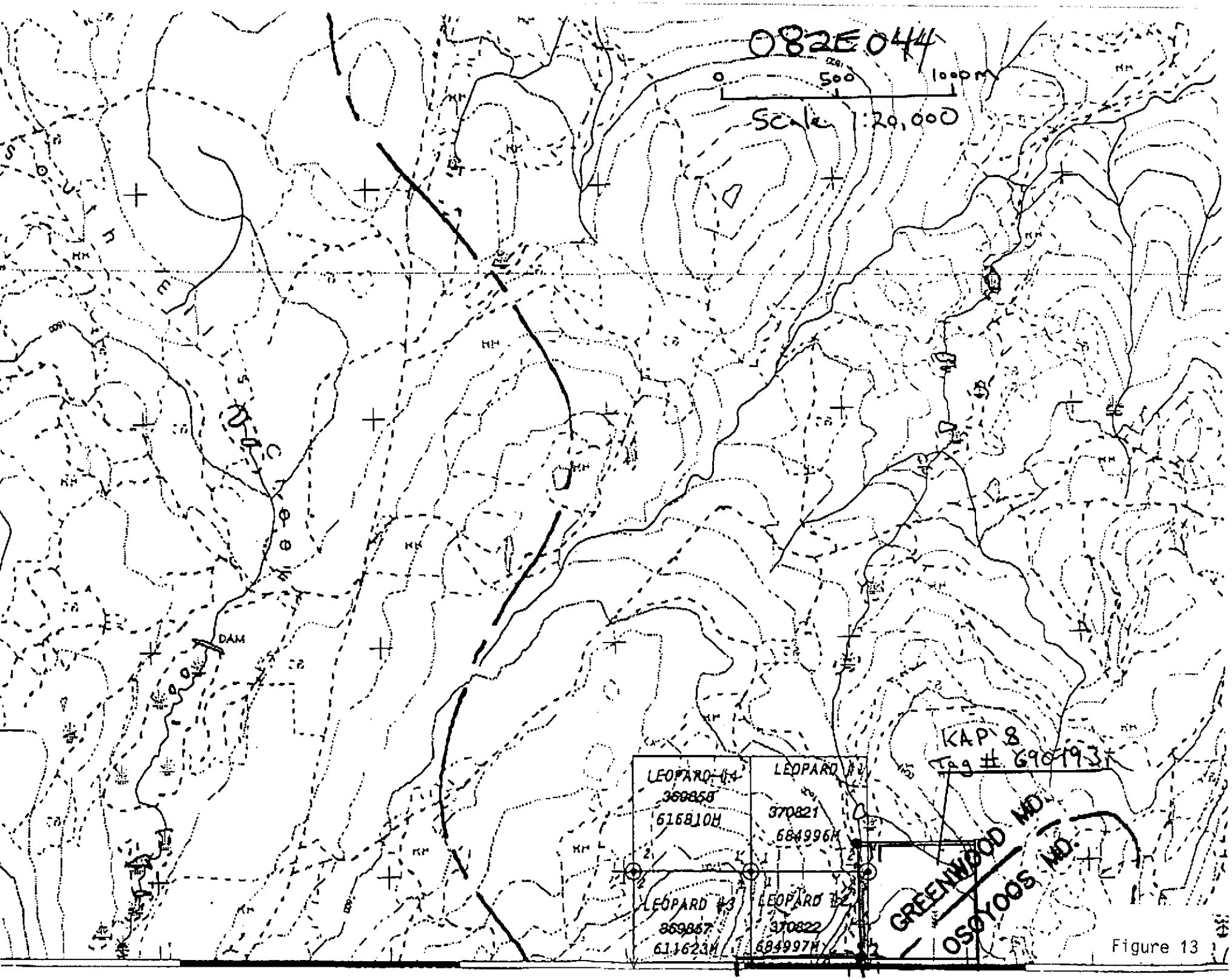

082E044
0 500 1000m
Scale 1:20,000
DAM
LEOPARD #4
369858
616810H
LEOPARD #1
370821
684996H
LEOPARD #3
369867
611623H
LEOPARD #2
370822
684997H
KAP 8
Reg # 690193
GREENWOOD MD.
OSOYOOS MD.

Figure 13

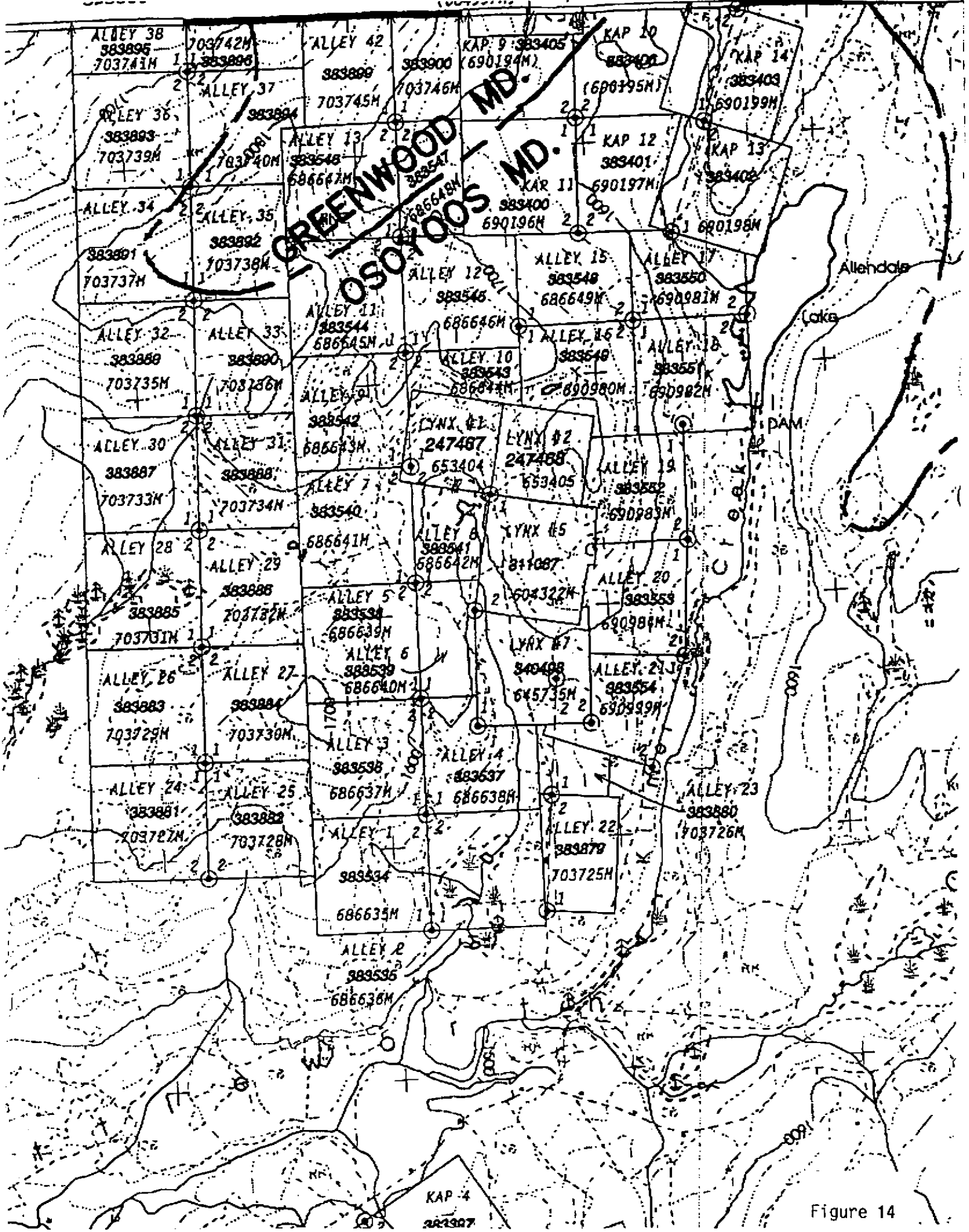

GREENWOOD MD.
OSOYOOS MD.
ALLEY 38
383895
703741M
703742M
ALLEY 37
383894
ALLEY 36
383893
703739M
703740M
ALLEY 34
383891
703737M
ALLEY 35
383892
703738M
ALLEY 32
383889
703735M
ALLEY 33
383890
703736M
ALLEY 30
383887
703733M
ALLEY 31
383888
703734M
ALLEY 28
ALLEY 29
383886
703732M
383885
703731M
ALLEY 26
383883
703729M
ALLEY 27
383884
703730M
ALLEY 24
383881
703727M
ALLEY 25
383882
703728M
ALLEY 42
383899
703745M
383900
703746M
ALLEY 13
383548
686647M
ALLEY 11
383544
686645M
ALLEY 9
383542
686643M
ALLEY 7
383540
686641M
ALLEY 5
383538
686639M
ALLEY 6
383539
686640M
ALLEY 3
383536
686637M
ALLEY 1
383534
686635M
ALLEY 2
383535
686636M
KAP 9 383405
690194M
KAP 10
690195M
KAP 14
383403
690199M
KAP 12
383401
KAP 13
383402
KAP 11
383400
690197M
690196M
690198M
ALLEY 15
383548
686649M
ALLEY 17
383550
690981M
ALLEY 12
383546
686646M
ALLEY 16
383549
ALLEY 18
383551
690982M
690980M
ALLEY 10
383543
686644M
LYNX #1
247487
653404
LYNX #2
247488
653405
ALLEY 19
383552
690983M
ALLEY 8
383541
686642M
LYNX #5
811087
604322M
ALLEY 20
383553
690984M
LYNX #7
340498
645735M
ALLEY 21
383554
690999M
ALLEY 4
383537
686638M
ALLEY 22
383879
703725M
ALLEY 23
383880
703726M
KAP 4
383397
Allendale
Lake
PAM
Creek
600
700

Figure 14

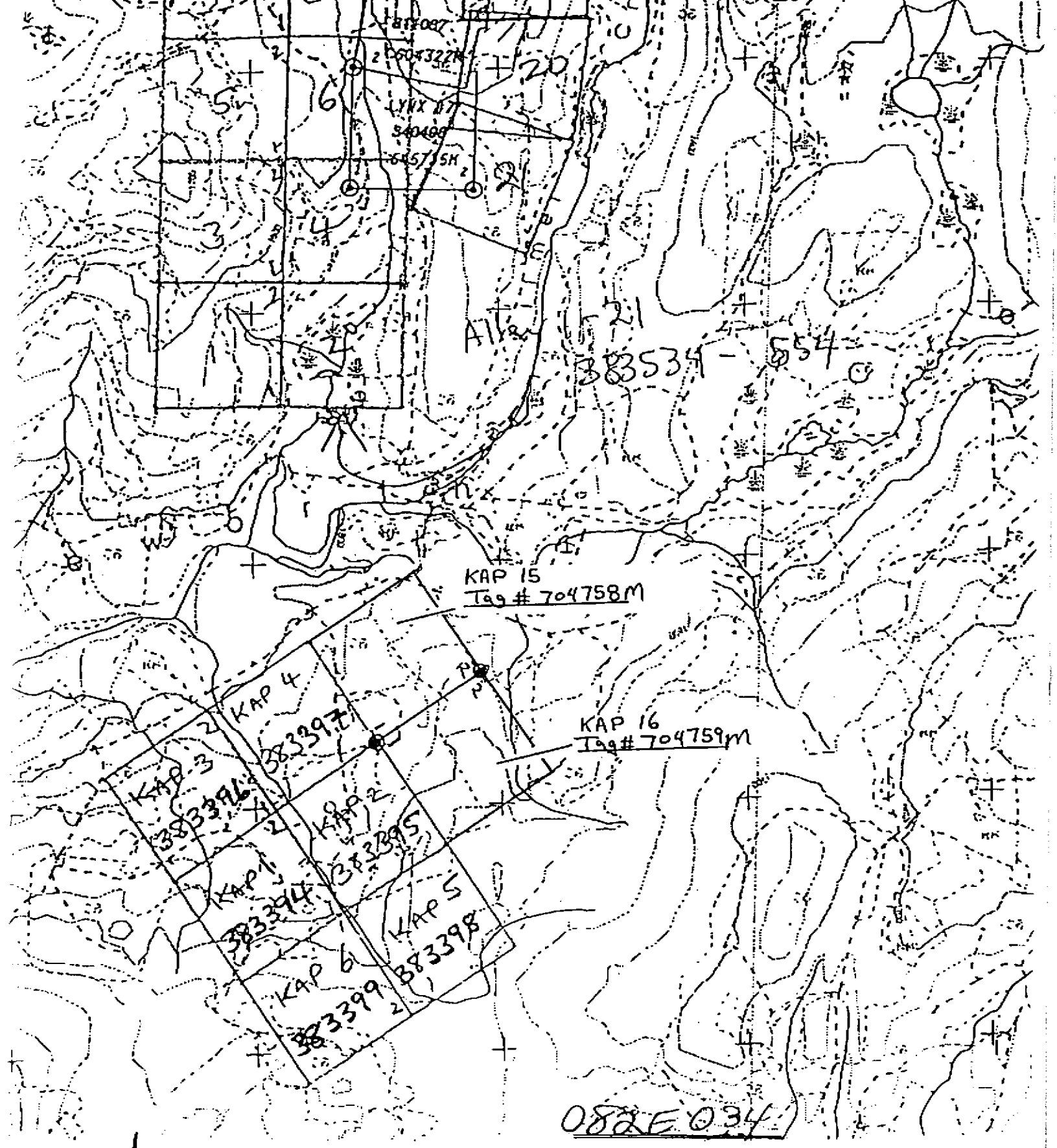

KAP 15
Tag # 704758M
KAP 16
Tag # 704759M
KAP 1
KAP 2
KAP 3
KAP 4
KAP 5
KAP 6
383534
383397
383396
383395
383394
383398
383399
082E034
Osoyoos M.D.
0
500
1000 m.
N
Scale 1:20,000

Figure 15