RAM EXPLORATIONS LTD.

GEOLOGICAL, GEOPHYSICAL AND DRILLING REPORT

1988 EXPLORATION PROGRAM

FISSURE CLAIM GROUP

TROUT LAKE DISTRICT

REVELSTOKE MINING DIVISION

Location:

Longitude: 117 ° 30' west
Latitude: 50 ° 43' north
NTS: 82K11W/12E

Ownership: Halley Resources Ltd.
Newfields Minerals Ltd.

Operator: Hally Resources Ltd.

Date Submitted: July 10, 1989
Amended: October 7, 1989

Author: C. A. von Einsiedel, BSc.

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INTRODUCTORY NOTE

The Fissure Claim Group covers an area equivalent to roughly 7 square kilometers located in the central part of a relatively unexplored silver mining area termed the Trout Lake Mining District. The claim area is located approximately 50 kilometers southeast of Revelstoke in southeastern British Columbia.

The claims are of interest because they cover a densely forested valley which separates two of the best known prospects within the Trout Lake area. Soil geochemical surveys (Westmin Resources Ltd., 1982) identified several targets which exhibit elevated silver and base metal values roughly 1 kilometer north of the most important of the known discoveries (termed the "True Fissure" prospect). During 1986 Halley Resources Ltd. carried out fill-in geochemical surveys and overburden trenching.

Results of these surveys were inconclusive. Fill-in surveys confirmed Westmins results however trenching of several broad, anomalous zones showed unusually heavy overburden conditions. These conditions precluded identification of the source of these anomalies and the exploration program was suspended. Technical data relating to these surveys is described in a report by the author dated May 12, 1988.

Between May 15, 1988 and February 28, 1989 Halley Resources Ltd. and Newfields Minerals Ltd. carried out an extensive program of access road construction, geophysical surveys, overburden drill testing and diamond drilling designed to identify the source of the geochemical anomalies. This report describes results of these surveys and includes a compilation of previous soil geochemical data.

SECTION 1 - DESCRIPTION OF 1988 EXPLORATION PROGRAM

1.0 <u>Program Summary</u>

To provide access to the claim area approximately 4 kilometers of skid trails were upgraded allowing 4 wheel drive access to a ridge located immediately south of the claim boundary. The original geochemical survey grid employed by Westmin covered an area 1.1 kilometers long and 1.5 kilometers wide. This grid was re-established and a total of 27 line kilometers of profile lines were flagged and stationed as a basis for geophysical survey control. Detailed (1,2,500 scale/ 10 meter contour interval) physiographic plans were prepared as a base for locating position of access roads, drill sites and sample locations.

On the basis of "highest silver and base metal values" in soils an area in the central part of the grid was selected for detailed overburden drilling (Note: soil geochemistry plots are included as figure no.s 2.1, 2.2, 2.3 and 2.4). Three 700 meter long skid trails spaced roughly 75 meters apart were constructed across the anomalous area. A Hydra Core 28 Drill was then utilized to penetrate and recover overburden samples at the bedrock interface. A total of 179 test holes were drilled from 39 sites spaced at roughly 50 meter intervals. Sample locations are shown in figure no.2.5. Overburden sample assay results are included as Appendix 1 and 2.

Geophysical surveys were carried out using a Scintrex Model IGS2 Integrated VLF-EM and Magnetometer. VLF-EM data is plotted as In Phase Contour Plans in figure no.s 2.6 and 2.7. Magnetometer data is plotted as Total Field Contour Plans in figure no.2.8.

Preliminary geophysical data showed several conductive zones which were interpreted as shear or fault zones. To evaluate these zones 13 holes were drilled for a total of 983.7 meters. Drill hole locations are shown in figure no.2.9. Drill core logs are included as Appendix 3.

Geological data based on grid mapping is shown in figure no.2.9.

1.1 <u>Location and Description of Mineral Claims</u>

The Fissure claim group consists of 3 located claims comprising 36 modified grid units located on Mineral Title Reference Map No.s 82K12W and 82K11E. The claims are centered at 50 ° 43' north latitude and 117 ° west longitude. Figure no.2.0 is a reproduction of the applicable Mineral Title Reference Maps.

Title is recorded as follows:

Claim Name	Record #	Registered Owner	Expiry Date
Fissure 1	2094	Halley Resources Ltd.	July 10, 1994
Fissure 2	2095	Halley Resources Ltd.	July 10, 1994
Fissure 3	2096	Halley Resources Ltd.	July 10, 1993

Access to the project area is by paved or well maintained gravel roads from either Revelstoke, Nakusp or Kaslo. Access to the property is via a skid trail extension of the steep mine road which leads to the True Fissure mine workings from the main road to Ferguson.

The claim area covers a steep sided, "U" shaped glacial valley with elevations ranging from 1,300 to 2,100 meters a.s.l. Topography in the area of the survey grid (shown as shaded area) is moderately steep with alpine conditions in the southern part and dense coniferous forest to the north.

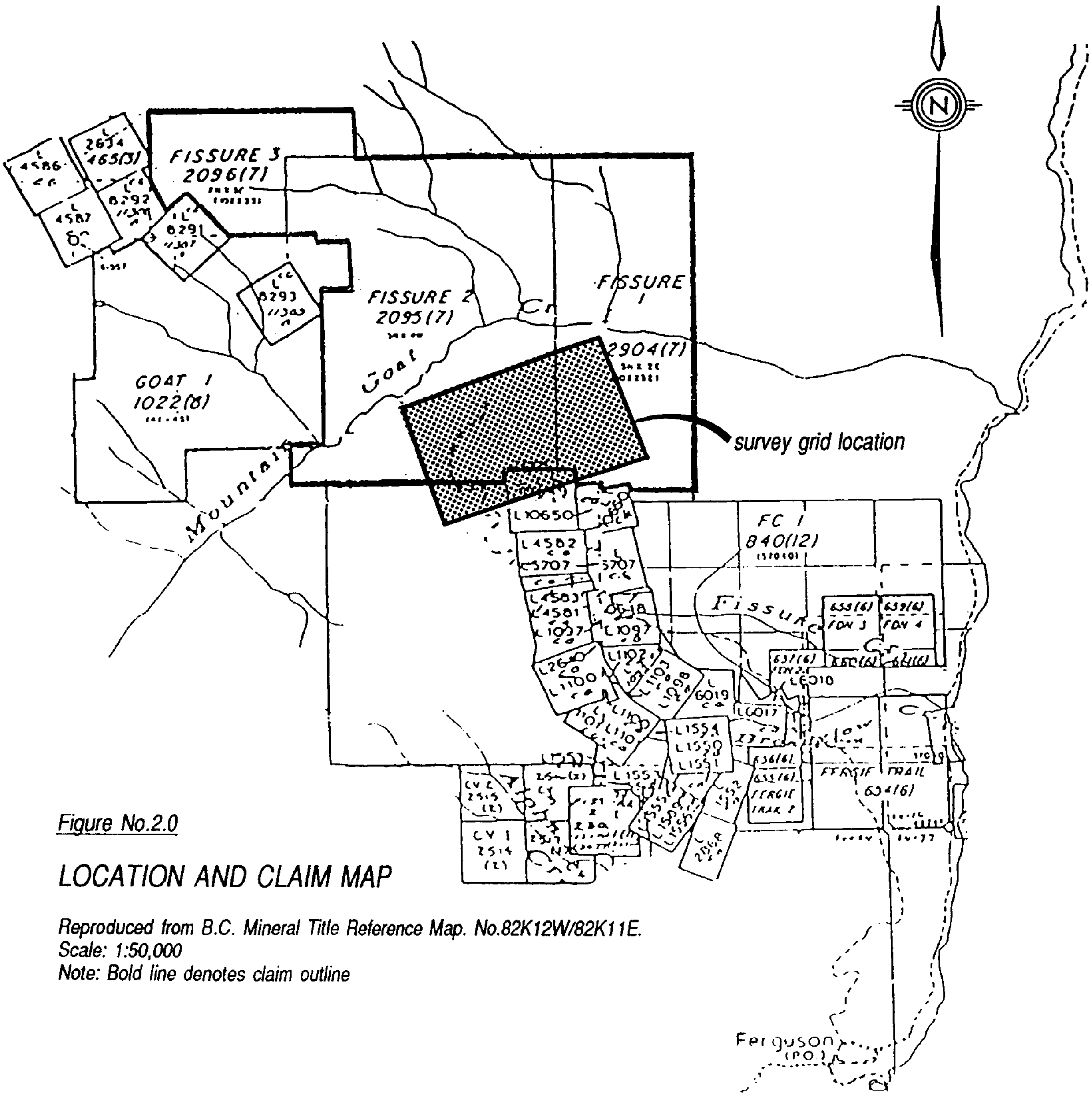

Figure No.2.0

LOCATION AND CLAIM MAP

Reproduced from B.C. Mineral Title Reference Map. No.82K12W/82K11E.
Scale: 1:50,000
Note: Bold line denotes claim outline

1.2 Geological Setting

The project area (termed the Trout Lake Mining District) forms the northern terminus of an arcuate belt of folded, Paleozoic aged rocks known as the Kootenay Arc. This feature extends from northern Idaho to Revelstoke and hosts many of the well known silver - lead - zinc (gold) mining camps of the western Cordillera.

According to Read, 1976 extensive exploration during the late 1800's and early 1900's identified over 200 polymetallic, vein type occurrences however few of these have been explored by modern exploration methods. The Fissure claims are located in the central part of the Trout Lake District as defined by Read, 1976.

In summary the subject claims cover part of an antiform or fold structure termed the Silver Cup Anticline. This structure is a northwest striking feature which transects Mountain Goat Creek Valley in the vicinity of the property. Rocks within the Silver Cup fold comprise argillites, siliceous argillites, quartzites, phyllites and chlorite schists belonging to the Cambrian to Devonian aged Lardeau Group (Broadview, Ajax-Sharon Creek and Jowett Formations). Precious metal mineralization along this structure consists of fault controlled, vein-type occurrences which vary in metal content from predominantly gold bearing to silver and base metal rich types. Some prospects consist of massive sulphide bands containing abundant sphalerite, galena and pyrite in addition to gold and silver while others consist of barren looking, white quartz containing variable gold and only minor silver and base metal values.

Stratigraphy in the vicinity of the subject claims consists of steeply folded meta-sediments belonging to the Broadview Formation. Figure 2.9 illustrates the various field relationships and includes a lithologic description of the the various sub-units within this formation. Principal rock types include graphitic argillites and phyllites, metagrit or greywacke and various pyroclastic metavolcanic units.

Recent exploration by various operators has established the basic characteristics commonly associated with these occurrences.

1) *Mineralization occurs where cross fracturing (typically having a north northeast to north northwest orientation) intersects quartz filled, sub-conformable to conformable bedding plane faults.*

2) *Mineralization occurred in several episodes and is almost always associated with the development of siderite and ankerite. Alteration is minor in most rock types however propylitic and carbonate alteration minerals are developed where phyllitic or chloritic rocks are mineralized.*

3) *Sulphide minerals tend to occur at or near vein contacts or along graphitic partings within the veins. Gold may occur either with sulphides or "free" within quartz veins.*

It is concluded that bedding plane faults and areas of cross fracturing located in close proximity to the Silver Cup Anticline represent favourable exploration targets.

Near the turn of the century prospectors identified numerous high grade, polymetallic vein occurrences in the area south and northwest of the Fissure claim area. These prospects include the True Fissure, Great Northern, Broadview and Beatrice all of which have been developed on two or more adit levels and show lenses of massive sulfide mineralization ranging from 0.5 to 2.5 meters in width. Silver grades are reported to be up to 100 oz/ton at some prospects however production statistics for various nearby prospects suggest a realistic average in the 0.1 oz/ton gold; 12 oz/ton silver; 9% zinc and 6% lead range.

In 1972 HB&O Engineering compiled drill information from a series of shallow holes drilled in the True Fissure mine area and published a reserve estimate of 84,000 tons grading 9.5 oz/ton silver; 6% lead and 9% zinc. All prospects are open down dip and warrant systematic drilling.

On the basis of these results Westmin carried out a reconaissance scale soil geochemical survey immediately north of the True Fissure mine area and identified several anomalous areas. The strongest anomaly occurs in the central part of the grid area and is roughly 100 meters wide. Elevated silver and base metal values extend downslope some 400 meters below the topographic "top" of the zone. Soil geochemical results from this area range from 1.0 - 6.4 ppm silver; 250 - 1300 ppm zinc and 310 to 1,400 ppm zinc however lead values are very subdued (generally less than 100 ppm).

During 1986 Halley carried out fill-in geochemical sampling and overburden trenching to identify the source of these anomalies. Trenching showed that overburden is over 5 meters thick in large parts of the claim area and the program was suspended.

Numerous other junior resource companies are presently examining other parts of the Trout Lake / Lardeau District however a description of this work is beyond the scope of this report. For additional information the reader is referred to publications by Granges Exploration Ltd., Brynnoldson Mines Ltd., Winslow Gold Mines Ltd., Royal Crystal Resources Ltd., Halley Resources Ltd., Camfrey Resources Ltd., Jazzman Resources Inc., Mikado Resources Ltd., Windflower Mines Ltd., and K-2 Resources Ltd.

1.3 Overburden Drilling Program

To identify the source of the Westmin geochemical anomalies it was recommended that the area of "highest geochemical values" be systematically drilled and samples recovered from the overburden / bedrock interface.

To provide drill access three 700 meter long skid roads spaced at roughly 75 meter intervals were constructed across the selected target area. Overburden drill sites are indicated as filled circles in figure no.2.5. Overburden drill hole sample assays are included as Appendix 1 and 2.

The drilling method involved dry coring from surface to the bedrock interface using either a casing shoe or a serrated section of BW size casing. At each site a skid mounted Hydra Core Model 28 hydraulic drill was used to penetrate and recover overburden samples. After penetration, samples (approximately 2 kilograms each) were recovered by pressing the collected material out of each five foot (1.6 meter) casing section drilled. Where overburden thicknesses exceeded 10 feet (3.2 meters) each hole was subdivided into several five foot (1.6 meter) sections designated: either as "A" which represents material immediately above and including the bedrock overburden interface, "B" which represents material collected between ten and fifteen feet (3.2 to 4.8 meters) above the bedrock interface or as "C" which represents material collected more than fifteen feet (4.6 meters) above bedrock.

Sample numbers are designated as follows: 8801-01A, 8801-01B, 8802-01A, 8803-01A, 8803-01B, 8803-02A, 8803-02B, 8803-02C etc. The first four numbers indicate year and site number. The following two numbers represent the hole or penetration number at each site and the final coding is a letter which represents the approximate thichness of each sample section as described above.

The overburden material encountered was extremely variable ranging from very fine, red brown soils to heavily oxidized, angular talus consisting of graphitic schists and quartz fragments. All samples were assayed by Vangeochem of Vancouver by conventional ICP multi-element analyses. A description is included on the front page of assays in Appendix 1.

Results are considered encouraging. Data shows a cluster of high to extremely high values within a 150 x 300 meter area parallel to but offset slightly west of the surface soil geochemical anomaly.

Within this area 13 sites returned values of over 1 oz/ton silver from samples at the overburden / bedrock interface. High sample assays ranged from 1.23 to 6.14 oz/ton silver; 0.08 to 0.66% copper; and 0.05 to 0.58% zinc. Lead values remained very subdued with only 2 values over 300 ppm.

1.4 VLF-EM and Magnetometer Survey

Ground magnetic and electromagnetic surveys were carried out on the Fissure grid using a Scintrex IGS-2 Integrated Magnetometer and V.L.F. Electromagnetometer.

The magnetometer measures the earth's total magnetic field strength to an accuracy of 0.1 gammas. The Scintrex instrument includes a base recorder which records diurnal variation at 10 second intervals and applies appropriate corrections to data sets prior to preparation of contour plans or profiles.

The V.L.F. electromagnetometer acts as a receiver and utilizes primary electomagnetic fields generated by the United States Navy V.L.F. marine communications systems. These transmitters induce electric currents in conductive bodies thousands of miles away. Induced current produce secondary magnetic fields which can be detected at surface through deviations of the normal V.L.F field. The Scintrex instrument measures the dip angle of the secondary field induced in a conductor.

For maximum coupling, a transmitter station located in the same direction as the geological strike and/or the strike of possible conductors is selected since the direction of the horizontal electromagnetic field is perpendicular to the direction of the transmitting station. In this case, the transmitter at Seattle, Washington (24.8 kHz transmission frequency) was utilized.

Data for the Fissure Grid (also termed Alpha Grid) was interpreted by R.F. Scheldrake, Geophysical Consultant and is presented as Total Field magnetics and VLF-EM In Phase contour maps. These maps illustrate inferred fault zones, conductive and resistive rocks and the apparent geological contacts. VLF-EM data for Seattle is included as figure no. 2.6. VLF-EM data for the Annapolis station is included as figure no.2.7 and total field magnetic data is included as figure no.2.8.

The Fissure Grid was surveyed to identify shear and/or fault zones which may be the source of elevated silver and base metal values in soils in the central part of the survey area. Contoured VLF-EM data shows a northwest striking sequence of alternating conductive and nonconductive rocks. In the central part of the grid data suggests the presence of several northeast and northwest trending conductors. These conductors are interpreted as graphitic fault zones which may localize massive sulfide mineralization.

Magnetic data suggests the presence of north northwest striking geological formations and defines a weak magnetic high roughly co-incident with the easternmost of the north northeast conductors.

1.5 Drill Core Logs

Refer to Appendix 3 for drill core logs

Hole Number	Depth (meters)
DDH 88-01	84.4 meters
DDH 88-02A	42.4 "
DDH 88-02B	54.9 "
DDH 88-03	69.2 "
DDH 88-04	88.4 "
DDH 88-05	93.6 "
DDH 88-06A	73.2 "
DDH 88-06B	82.3 "
DDH 88-07A	83.2 "
DDH 88-07B	63.1 "
DDH 88-08A	96.6 "
DDH 88-08B	61.0 "
DDH 89-01	91.4 "

Total Meterage: 983.7 meters

Core Storage

1. *DDH No. 88-01, 88-02A, 88-02B, 88-03, 88-04, 88-07, 88-07B are located at a helicopter landing site adjacent to an A frame style camp at the southern end of the claim area.*

2. *DDH No. 88-05, 88-06A, 88-06B, 88-08A, 88-08B are located at Ram Explorations warehouse at Trout Lake.*

1.6 Geologic Interpretation

The property straddles the Silver Cup Anticline which is a large tectonic structure that extends several tens of kilometers northwest and southeast of the claims. This structure defines the boundaries and shape of the Central Mineral Belt within this segment of the Kootenay Arc. The fabric of macroscopic structures within these larger structures plays an important role in the distribution of mineralized zones within the Belt. The bedding plane faults (which are often associated with mineralized zones) strike in a northwestward direction and define slip planes along which much of the fold deformation took place. The cross faults, similarly associated with mineralization, were developed in response to changing stress regimes within the larger structures.

The principal faults identified in the area are shear zones developed within and conforming to bedding and/or foliation usually at the contact between ductile carbonaceous or graphitic argillite and competent quartzite or siliceous argillite. The faults strike northwesterly and dip steeply to the east.

The shear zones, generally comprised of parallel or anastomosing graphitic slips can be defined over widths from several centimeters to several meters within the same unit. It was noticed that deformation that results in shearing in one locality can be entirely accomplished by flow and slip folding with no development of shear in another. This characteristic of bedding plane shear zones on the property may be an important control to mineralization especially where argillite and phyllitic rocks are the hosts to mineralization. Ground preparation, particularly silicification, may be an important if not critical process in the development of suitable sites for mineralization.

Secondary fracturing and faulting related to movement on shear faults has produced joint shears extending at acute angles from the plane of the principal shear. These shears are dilational in character and often are the sites of stockwork quartz veining. Where the country rock near the shear is sufficently brittle, brecciation deformation with subsequent quartz veinlet infilling has taken place. Both joint shears and brecciation have been observed in most of the occurrences examined.

A very consistent pattern of jointing and fracturing striking north-northeast and north-northwest directions is common to mineralized zones in the Belt. These fractures, referred to in geological literature on the area as cross fractures or crosscutting fissures, are an important feature in mineralized zones and have been noted at the Nettie L and True Fissure Mines as well as others. Both brecciation and shearing appear to be most intense where bedding plane shears intersect principal cross faults. The more intensely deformed zones may have provided both the conduits and the sites for mineral deposition.

Tight, isoclinal mesoscopic folds are common in all schistose members. Axial planes parallel the foliation and where development of foliation results in pronounced slaty cleavage, fold patterns may be all but obscured. Lenses of quartz, chloritic quartz and quartz-carbonate are most abundant in fold crests or axes and are indicative of such.

The stratigraphy of the project area is generalized in the legend attached to figure no. 2. The stratigraphic sequence youngs in a southwestward direction and represents about a 1 kilometer thickness.

A total of 13 holes were drilled to test various conductive zones identified by geophysical survey data. Most of the holes intersected a med. grey to black phyllite which shows a continuous gradation from a fissile, graphitic argillite to a blocky, Metagreywacke with accassional pyroclastic metagreywacke units. Drill hole locations are shown in figure no.2.9. Drill core logs are included as Appendix 3.

Several quartz filled breccia zones were intersected however none showed visible sulfide mineralization. Quartz intervals range from 10 cm to over 2 meters in width (DDH 89-01) and exhibit siderite either along contacts or as discreet sub-hedral clusters within the quartz. Graphitic partings (typical sites for localization of mineralization with productive veins) are common and it is concluded that these structures represent favourable targets.

This type of breccia zone and the associated stockwork type quartz stringers are typical of the local fault systems which localize sulfide mineralization and it is recommended that additional drilling be completed. The most promising site appears to be the area tested by DDH 89-01 as this hole intersected the widest observed thickness of quartz.

It should be noted that many areas drilled encountered recovery problems as a result of the extensive weathering of the fissile, phyllitic units. Future drilling should be completed using NQ rather than BQ size equipment as this would allow better penetration and recovery from problem areas.

Core Assays

1. *At time of writing no assays have been made of drill core. Detailed sampling of all quartz bearing sections will be completed during the 1989/90 exploration season.*

CERTIFICATE

I, Carl A. von Einsiedel of the City of Vancouver, in the Province of British Columbia, certify that:

1. *I am a consulting geologist with offices located at 210 - 470 Granville Street, Vancouver, B.C.*
2. *I am a graduate of Carleton University in Ontario in Geological Sciences with a degree of BSc.*
3. *I have been employed in the field of mineral exploration since 1980.*
4. *This report is based on: results of several personal examinations of the subject property; results of geochemical and geophysical surveys; overburden and drill core testing; and, results of extensive research regarding local mineral deposits.*
5. *I have no interest, either directly or indirectly, in the properties or securities of Halley Resources Ltd.*
6. *I consent to the use of this report in a Prospectus, Statement of Material Facts or Qualifying Report for submittal to the Superintendent of Brokers or the Vancouver Stock Exchange.*

Dated this 10th day of October, 1989 at Vancouver, British Columbia.

Carl A. von Einsiedel, BSc
Consulting Geologist

REFERENCES

B.C. Minister of Mines Annual Reports, 1898 p.1059, 1900 p.981, 1923 p.234, 1924 p.209, 1925 p.264, 1926 p.A274, 1927 p.295, 1930 p. 266,447.

GSC Memoir No. 161 p.55

Read, P.B., (1976): Geology - Lardeau West Half.

GSC Map 45, 432, 464

Westmin Resources, (1983): Summary Report of 1982 Fieldwork, Mohawk and Related Properties. Westmin Resources, Corporate Files

Private Report - Questor Surveys Ltd.,(June 1988): Report on Combined Helicopter-Borne Magnetic and Electromagnetic Survey Trout Lake, B.C.

STATEMENT OF COSTS

MOUNTAIN GOAT CREEK EXPLORATION PROGRAM (period May 15, 1988 to February 28, 1989)

Expense category	Cost
Mobilization Fees	$ 7,500
Travel Expenses	6272
Engineering Fees	
-52 days geological	15,925
-geophysical consulting	5,000
Geological / Field Technicians (grid layout, road construction, linecutting, geophysical technician, expediting, sample preparation)	
-371 man days	88,672
Mountain Goat Creek Camp Construction	
-construction supplies	19,200
-labour	8,250
Crew Accommodation / Camp maintenance	40,275
Equipment Rentals	
-4x4 trucks	13,969
-snowmobiles	12,510
-field supplies	1,500
-geochemical, geological supplies	750
-geophysical equipment	4,490
Geochemical assays	
-179 ICP determinations	1,790
-20 core sample assays	400
Overburden / Surface drilling program	
-mobilization charges	5,000
-overburden drilling (39 sites/ 179 overburden samples for assay)	77,200
-core drilling (892.1 meters)	77,067
-core drilling 1988/89 (91.4 meters)	19,226
Tracked Equipment Support (Mountain Goat Creek access road construction, equipment transfer, drill site construction, moves	
-D6D Bulldozer (1,206 hours)	140,560
Helicopter Charter Fees	
-33.75 hours @ $515	17,379
Fuel and Machine Oils	
-fuel storage tank rental (8,400 gal. capacity)	2,500
-drilling equipment, tracked equipment and helicopter fuel)	29,070
Technical Report Preparation*	
-geological fees	2,500
-drafting, technical drawings	1,700
-reproductions, secretarial	800
TOTAL EXPENDITURE: (includes technical report preparation)	$ 599,505

APPENDIX 1 - *Overburden Sample Assay Results*

VANGEOCHEM LAB LIMITED

1988 Triumph Street, Vancouver, B.C. V5L 1K5
Ph:(604)251-5656 Fax:(604)254-5717

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO_3 to H_2O at 95 °C for 90 minutes and is diluted to 10 ml with water.
This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Pd, Pt, Sn, Sr and W.

ANALYST: [signature]

REPORT #: 890125 PA RAM EXPL Proj: FISSURE Date In: 89/03/15 Date Out:89/03/23 Att: CARL

Sample Number	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Pd	Pt	Sb	Sn	Sr	U	W	Zn
	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
OBS 002 01 B	1.6	0.77	38	<3	44	<3	0.01	1.1	5	83	110	4.16	0.15	0.02	103	5	0.02	17	0.05	167	<3	<5	<2	<2	8	<5	4	129
OBS 002 02 B	10.4	0.78	31	<3	44	<3	0.01	4.6	3	99	124	4.69	0.17	0.02	106	8	0.02	17	0.06	64	<3	<5	<2	<2	8	<5	16	74
OBS 003 02 B	0.1	1.15	15	<3	36	<3	0.01	1.2	2	69	79	6.44	0.24	0.23	113	5	0.03	17	0.07	61	<3	<5	<2	<2	6	<5	<3	97
OBS 005 01 B	0.1	1.24	9	<3	39	<3	0.01	0.6	1	193	37	4.15	0.15	0.38	253	9	0.02	14	0.06	63	<3	<5	<2	<2	7	<5	<3	73
OBS 005 02 B	0.1	1.24	14	<3	45	<3	0.01	0.5	1	191	40	4.23	0.18	0.23	218	7	0.03	8	0.08	73	<3	<5	<2	<2	7	<5	<3	67
OBS 005 03 B	0.1	1.35	14	<3	98	<3	0.02	0.8	1	97	57	3.67	0.16	0.29	185	8	0.03	9	0.07	357	<3	<5	<2	<2	10	<5	<3	146
OBS 005 04 B	1.3	0.78	24	<3	32	<3	0.01	1.1	1	44	89	3.27	0.12	0.17	140	4	0.02	18	0.07	73	<3	<5	<2	<2	6	<5	82	91
OBS 005 05 B	10.1	1.15	24	<3	34	<3	0.01	5.5	6	114	244	3.52	0.13	0.36	185	7	0.03	68	0.06	67	<3	<5	<2	<2	6	<5	260	269
OBS 005 06 B	15.6	1.31	27	<3	42	<3	0.01	8.1	8	161	203	4.28	0.18	0.27	330	9	0.03	55	0.08	78	<3	<5	<2	<2	7	<5	201	213
OBS 008 01 B	>50.0	0.99	22	<3	32	<3	0.01	132.5	363	140	6592	5.60	0.23	0.23	586	23	0.07	602	0.05	62	<3	<5	<2	96	5	<5	96	5760
OBS 008 02 B	10.6	1.04	19	<3	40	<3	0.01	5.6	4	75	151	4.89	0.18	0.18	85	6	0.03	18	0.07	56	<3	<5	<2	<2	7	<5	14	142
OBS 008 03 B	0.4	0.91	20	<3	33	<3	0.01	1.2	3	94	93	4.85	0.18	0.17	81	5	0.03	11	0.07	49	<3	<5	<2	<2	5	<5	<3	76
OBS 008 04 B	6.9	1.31	13	<3	34	<3	0.01	4.6	3	107	148	6.48	0.24	0.36	131	7	0.03	20	0.06	49	<3	<5	<2	<2	5	<5	24	136
OBS 008 05 B	0.1	1.12	21	<3	34	<3	0.01	1.2	1	73	83	5.66	0.21	0.22	82	4	0.03	11	0.07	47	<3	<5	<2	<2	5	<5	<3	65
OBS 008 06 B	7.9	1.37	21	<3	31	<3	0.01	4.7	1	84	107	6.01	0.22	0.44	123	6	0.03	15	0.08	56	<3	<5	<2	<2	5	<5	4	107
OBS 009 01 B	6.5	0.64	34	<3	41	<3	0.01	3.3	7	61	118	3.29	0.12	0.01	73	4	0.02	22	0.06	50	<3	<5	<2	<2	10	<5	28	140
OBS 009 02 B	26.1	0.54	39	<3	38	<3	0.01	11.5	8	60	151	3.15	0.11	0.01	80	4	0.02	30	0.06	48	<3	<5	<2	<2	8	<5	44	190
OBS 009 03 B	0.4	0.57	38	<3	39	<3	0.01	0.5	4	122	55	2.98	0.13	0.01	74	7	0.02	14	0.06	43	<3	<5	<2	<2	9	<5	<3	84
OBS 009 04 B	2.0	0.69	31	<3	35	<3	0.01	1.2	6	76	52	3.47	0.15	0.18	138	4	0.02	14	0.07	46	<3	<5	<2	<2	8	<5	<3	111
OBS 009 05 B	10.1	0.42	34	<3	34	<3	0.01	4.5	5	133	77	2.49	0.12	0.01	113	7	0.01	17	0.07	113	<3	<5	<2	<2	7	<5	9	125
OBS 009 06 B	8.9	0.54	39	<3	36	<3	0.01	3.6	11	63	207	3.12	0.11	0.01	101	6	0.02	64	0.05	60	<3	<5	<2	<2	8	<5	68	247
OBS 009 07 B	1.3	0.53	38	<3	37	<3	0.01	0.4	5	80	66	2.90	0.10	0.01	66	6	0.02	21	0.06	51	<3	<5	<2	<2	9	<5	<3	97
OBS 009 07 C	2.3	0.55	36	<3	29	<3	0.01	1.4	6	25	58	3.30	0.14	0.01	98	3	0.02	17	0.06	53	<3	<5	<2	<2	8	<5	<3	101
OBS 009 08 B	2.3	0.61	36	<3	42	<3	0.01	1.4	8	78	64	3.25	0.12	0.01	78	6	0.02	19	0.07	56	<3	<5	<2	<2	10	<5	4	95
OBS 009 09 B	2.0	0.61	37	<3	41	<3	0.01	1.1	5	64	50	2.93	0.13	0.01	73	5	0.02	13	0.06	48	<3	<5	<2	<2	9	<5	<3	77
OBS 009 09 C	4.3	0.57	31	<3	33	<3	0.01	2.1	7	67	64	2.93	0.11	0.01	82	4	0.02	24	0.06	52	<3	<5	<2	<2	8	<5	16	108
OBS 009 10 B	4.6	0.51	32	<3	35	<3	0.01	2.5	5	127	58	2.67	0.10	0.01	93	7	0.02	21	0.05	47	<3	<5	<2	<2	8	<5	8	90
OBS 009 11 B	2.7	0.51	31	<3	35	<3	0.01	1.4	5	74	55	2.84	0.13	0.01	79	4	0.02	21	0.06	48	<3	<5	<2	<2	8	<5	<3	85
OBS 009 11 C	6.0	0.43	30	<3	30	<3	0.01	2.7	9	91	68	2.46	0.09	0.01	110	6	0.02	24	0.06	45	<3	<5	<2	<2	7	<5	58	101
OBS 009 16 B	8.9	0.52	35	<3	31	<3	0.01	4.2	5	85	77	3.44	0.15	0.01	84	5	0.02	26	0.07	56	<3	<5	<2	<2	8	<5	6	101
OBS 009 16 C	13.8	0.44	19	<3	30	<3	0.01	6.1	8	107	119	2.96	0.11	0.01	86	5	0.02	52	0.05	34	<3	<5	<2	<2	6	<5	40	156
OBS 009 17 B	5.1	0.45	30	<3	32	<3	0.01	2.5	17	85	77	2.74	0.10	0.01	92	4	0.02	28	0.06	44	<3	<5	<2	<2	8	<5	54	100
OBS 010 02 B	0.4	0.73	33	<3	36	<3	0.01	1.1	5	107	68	3.82	0.14	0.09	97	7	0.02	22	0.06	37	<3	<5	<2	<2	8	<5	<3	84
OBS 012 02 B	0.9	0.52	30	<3	33	<3	0.01	0.4	5	100	37	2.51	0.11	0.03	79	3	0.02	14	0.05	33	<3	<5	<2	<2	6	<5	<3	53
OBS 014 02 B	33.7	0.86	17	<3	49	4	0.01	16.4	89	47	116	>10.00	0.42	0.05	3312	6	0.04	129	0.03	51	<3	<5	<2	<2	8	<5	12	485
OBS 015 01 B	8.5	0.75	18	<3	39	3	0.01	5.8	87	28	107	9.57	0.36	0.04	3653	4	0.03	140	0.02	46	<3	<5	<2	<2	6	<5	<3	445
OBS 015 02 B	1.3	0.85	22	<3	61	<3	0.01	2.9	155	60	186	7.92	0.31	0.04	6350	6	0.03	197	0.02	54	<3	<5	<2	<2	8	<5	94	491
OBS 016 01 B	0.1	0.52	35	<3	40	<3	0.01	0.3	12	40	42	2.90	0.11	0.01	230	4	0.02	28	0.02	54	<3	<5	<2	<2	5	<5	20	90
OBS 017 01 B	0.1	0.44	33	<3	36	<3	0.01	0.9	22	64	73	4.90	0.18	0.01	295	4	0.02	65	0.02	44	<3	<5	<2	<2	5	<5	20	157
Minimum Detection	0.1	0.01	3	3	1	3	0.01	0.1	1	1	1	0.01	0.01	0.01	1	1	0.01	1	0.01	2	3	5	2	2	1	5	3	1
Maximum Detection	50.0	10.00	2000	100	1000	1000	10.00	1000.0	20000	1000	20000	10.00	10.00	10.00	20000	1000	10.00	20000	10.00	20000	100	100	2000	1000	10000	100	1000	20000

Sample Number	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Pd	Pt	Sb	Sn	Sr	U	W	Zn
	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
OBS 017 01 C	0.5	0.46	42	<3	37	<3	0.01	0.3	8	32	46	2.77	0.12	0.01	123	3	0.02	23	0.01	67	<3	<5	<2	<2	5	<5	7	75
OBS 018 03 B	0.5	1.24	8	<3	29	<3	0.02	0.5	14	66	60	3.15	0.15	0.06	613	3	0.02	22	0.07	34	<3	<5	<2	<2	7	<5	<3	72
OBS 019 01 B	0.3	1.17	14	<3	38	<3	0.01	0.9	14	85	54	3.94	0.18	0.20	621	5	0.02	14	0.09	49	<3	<5	<2	<2	7	<5	<3	60
OBS 019 01 C	0.1	0.66	25	<3	30	<3	0.01	0.4	8	88	52	2.96	0.13	0.01	130	3	0.01	22	0.02	46	<3	<5	<2	<2	4	<5	15	72
OBS 019 02 B	0.7	1.40	7	<3	38	<3	0.01	1.1	33	139	65	3.73	0.14	0.30	1174	7	0.02	30	0.09	45	<3	<5	<2	<2	7	<5	30	89
OBS 019 02 C	0.1	0.45	35	<3	35	<3	0.01	0.4	11	43	86	2.98	0.10	0.01	137	3	0.02	36	0.02	44	<3	<5	<2	<2	5	<5	74	121
OBS 020 01 B	0.2	1.26	6	<3	29	<3	0.01	0.5	22	66	52	2.63	0.09	0.17	687	4	0.02	22	0.06	35	<3	<5	<2	<2	5	<5	9	59
OBS 021 02 B	0.1	0.48	15	<3	39	<3	0.03	0.3	3	64	26	1.70	0.05	0.02	102	2	0.01	12	0.04	33	<3	<5	<2	<2	10	<5	6	55
OBS 025 01 B	0.1	0.39	17	<3	29	<3	0.01	0.1	2	56	30	1.37	0.06	0.01	31	2	0.01	9	0.03	29	<3	<5	<2	<2	7	<5	12	42
OBS 025 01 C	1.1	0.40	14	<3	33	<3	0.02	0.4	3	55	31	1.53	0.07	0.01	59	2	0.01	8	0.03	31	<3	<5	<2	<2	9	<5	7	57
OBS 025 02 B	0.1	0.39	15	<3	34	<3	0.02	0.1	1	64	18	0.98	0.01	0.01	29	3	0.01	4	0.02	27	<3	<5	<2	<2	9	<5	<3	33
OBS 028 01 C	4.4	1.22	12	<3	39	<3	0.02	2.8	6	53	62	3.99	0.18	0.36	133	3	0.02	27	0.06	53	<3	<5	<2	<2	9	<5	<3	93
OBS 028 06 B	0.5	1.09	19	<3	42	<3	0.01	1.1	8	291	56	4.02	0.18	0.28	184	12	0.03	30	0.04	52	<3	<5	<2	<2	7	<5	<3	109
OBS 028 07 B	21.1	1.15	26	<3	36	<3	0.02	10.4	11	73	106	3.91	0.18	0.39	178	5	0.02	40	0.06	56	<3	<5	<2	<2	11	<5	58	134
OBS 028 07 C	0.2	1.10	23	<3	38	<3	0.01	0.9	6	63	55	3.91	0.18	0.27	125	6	0.03	26	0.05	58	<3	<5	<2	<2	6	<5	<3	88
OBS 028 08 B	0.3	1.23	20	<3	38	<3	0.01	1.1	7	99	58	4.13	0.19	0.40	155	6	0.02	29	0.05	51	<3	<5	<2	<2	8	<5	<3	110
OBS 028 08 C	3.8	1.18	11	<3	44	<3	0.04	2.3	7	95	55	3.76	0.14	0.31	175	5	0.02	32	0.05	51	<3	<5	<2	<2	10	<5	<3	91
OBS 028 09 B	2.4	1.07	17	<3	30	<3	0.02	2.1	8	82	65	3.53	0.16	0.39	144	3	0.02	31	0.04	44	<3	<5	<2	<2	8	<5	24	89
OBS 028 09 C	19.5	1.14	16	<3	40	<3	0.02	9.6	7	109	65	3.57	0.13	0.33	149	6	0.02	30	0.05	48	<3	<5	<2	<2	9	<5	<3	105
OBS 029 01 B	1.2	1.69	<3	<3	49	<3	0.62	0.8	12	159	48	2.46	0.18	0.74	360	7	0.02	24	0.05	23	<3	<5	<2	3	34	<5	<3	49
OBS 029 02 B	0.2	0.64	21	<3	38	<3	0.01	0.4	5	67	28	3.17	0.14	0.11	375	3	0.03	20	0.05	46	<3	<5	<2	<2	8	<5	<3	68
OBS 030 01 B	0.1	0.99	12	<3	32	<3	0.01	0.5	6	80	35	3.25	0.15	0.29	170	4	0.02	49	0.03	36	<3	<5	<2	<2	5	<5	<3	80
OBS 030 02 B	1.5	0.99	12	<3	34	<3	0.01	1.3	9	111	33	3.17	0.14	0.27	271	5	0.03	22	0.03	38	<3	<5	<2	<2	6	<5	<3	85
OBS 031 01 B	19.1	0.96	13	<3	40	<3	0.01	10.9	23	29	577	3.75	0.14	0.22	383	4	0.03	185	0.03	42	<3	<5	<2	<2	6	<5	138	628
OBS 031 01 C	0.7	0.99	10	<3	32	<3	0.01	0.8	14	48	39	3.18	0.11	0.22	438	3	0.02	43	0.04	42	<3	<5	<2	<2	5	<5	<3	85
OBS 032 01 B	24.6	1.03	10	<3	32	<3	0.02	12.5	11	98	111	4.12	0.19	0.39	616	4	0.03	51	0.03	44	<3	<5	<2	3	7	<5	20	156
OBS 032 02 B	8.4	1.46	12	<3	34	<3	0.03	5.3	19	75	190	4.93	0.23	0.55	399	5	0.03	93	0.04	42	<3	<5	<2	<2	9	<5	70	289
OBS 032 02 C	2.1	1.02	15	<3	34	<3	0.04	2.1	17	55	137	4.70	0.22	0.35	1520	3	0.03	93	0.03	39	<3	<5	<2	<2	9	<5	128	244
OBS 034 01 B	6.1	0.60	17	<3	28	<3	0.01	3.4	17	78	174	4.03	0.15	0.04	255	6	0.02	35	0.03	44	<3	<5	<2	<2	5	<5	76	189
OBS 035 08 B	22.1	1.49	8	<3	22	<3	0.01	11.1	75	87	1047	4.08	0.19	0.69	245	12	0.03	135	0.02	45	<3	<5	<2	11	3	<5	126	968
OBS 036 01 B	18.9	0.62	22	<3	29	<3	0.01	9.6	25	154	236	3.41	0.15	0.08	311	8	0.02	38	0.04	43	<3	<5	<2	2	5	<5	120	242
OBS 036 02 B	3.5	0.39	30	<3	24	<3	0.01	2.1	13	151	127	3.53	0.13	0.02	290	5	0.02	24	0.07	42	<3	<5	<2	<2	9	<5	28	125
OBS 036 03 B	34.3	0.64	33	<3	47	<3	0.01	16.5	18	78	331	2.92	0.13	0.01	166	7	0.03	29	0.03	71	<3	<5	<2	15	8	<5	88	183
OBS 037 03 B	2.7	0.86	19	<3	38	<3	0.01	2.5	35	53	113	5.30	0.25	0.14	1567	4	0.03	61	0.05	63	<3	<5	<2	<2	6	<5	34	191
OBS 037 03 C	0.2	0.75	20	<3	28	<3	0.01	0.6	16	91	53	4.07	0.15	0.12	471	5	0.02	31	0.04	52	<3	<5	<2	<2	5	<5	<3	110
OBS 037 04 B	0.1	0.77	22	<3	31	<3	0.02	1.2	16	35	96	4.40	0.17	0.31	340	3	0.02	40	0.04	55	<3	<5	<2	<2	7	<5	<3	131
OBS 037 04 C	0.1	0.76	20	<3	29	<3	0.01	0.9	11	153	59	4.12	0.16	0.13	351	7	0.02	28	0.04	52	<3	<5	<2	<2	5	<5	<3	112
OBS 037 05 B	13.1	1.03	13	<3	50	<3	0.01	7.3	54	91	71	5.81	0.24	0.15	2918	6	0.03	70	0.04	56	<3	<5	<2	<2	6	<5	<3	169
OBS 037 05 C	0.2	1.45	<3	<3	89	5	0.01	3.9	220	60	33	>10.00	0.73	0.09	>20000	4	0.03	72	0.07	41	<3	<5	<2	<2	4	<5	<3	251
Minimum Detection	0.1	0.01	3	3	1	3	0.01	0.1	1	1	1	0.01	0.01	0.01	1	1	0.01	1	0.01	2	3	5	2	2	1	5	3	1
Maximum Detection	50.0	10.00	2000	100	1000	1000	10.00	1000.0	20000	1000	20000	10.00	10.00	10.00	20000	1000	10.00	20000	10.00	20000	100	100	2000	1000	10000	100	1000	20000

< = Less than Minimum is = Insufficient Sample ns = No sample > = Greater than Maximum AuFA = Fire assay/AAS

REPORT #: 890125 PA RAM EXPL Proj: FISSURE Date In: 89/03/15 Date Out:89/03/23 Att: CARL

Sample Number	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Pd	Pt	Sb	Sn	Sr	U	W	Zn
	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
OBS 037 06 B	11.5	0.44	35	<3	44	<3	0.01	5.3	9	105	106	3.19	0.14	0.02	204	8	0.02	33	0.06	527 ✓	<3	<5	<2	<2	9	<5	<3	281
OBS 037 06 C	4.8	0.63	30	<3	38	<3	0.02	3.4	15	103	119	4.04	0.15	0.34	267	7	0.02	31	0.08	49	<3	<5	<2	2	7	<5	34	150
OBS 037 07 B	0.3	1.43	15	<3	94	3	0.01	2.9	209	118	62	9.02	0.38	0.19	11845 ✓	7	0.04	274 ✓	0.05	62	<3	<5	<2	<2	10	<5	<3	417
OBS 037 08 B	0.1	0.87	24	<3	38	<3	0.02	0.6	15	99	54	4.05	0.15	0.31	441	6	0.02	39	0.04	52	<3	<5	<2	<2	8	<5	<3	112
OBS 037 09 B	0.1	1.30	10	<3	62	<3	0.01	1.9	120	92	44	8.24	0.33	0.20	7778	7	0.03	77	0.05	49	<3	<5	<2	<2	6	<5	<3	213
OBS 037 10 B	0.8	0.80	26	<3	38	<3	0.03	1.1	17	68	80	4.08	0.15	0.35	360	4	0.02	45	0.04	52	<3	<5	<2	<2	10	<5	<3	135
OBS 037 02 B	0.9	0.67	21	<3	40	<3	0.01	1.3	12	116	57	4.25	0.18	0.02	333	6	0.02	24	0.03	44	<3	<5	<2	<2	6	<5	<3	96
OBS 039 01 C	4.2	0.38	13	<3	21	<3	0.01	2.6	10	137	98	3.37	0.12	0.02	198	4	0.01	22	0.03	27	<3	<5	<2	<2	4	<5	28	121
OBS 039 03 B	2.7	0.60	19	<3	36	<3	0.01	1.4	7	136	62	3.35	0.15	0.02	134	7	0.02	18	0.03	36	<3	<5	<2	<2	6	<5	3	88
OBS 039 04 B	1.7	0.82	13	<3	35	<3	0.01	1.6	10	77	66	3.70	0.13	0.14	180	4	0.02	27	0.03	49	<3	<5	<2	<2	6	<5	<3	104
OBS 039 06 B	6.4	0.83	17	<3	32	<3	0.01	4.2	13	145	139	3.96	0.15	0.20	186	9	0.02	30	0.04	38	<3	<5	<2	<2	6	<5	70	162
OBS 039 07 B	4.2	0.67	12	<3	32	<3	0.01	2.9	10	89	80	3.71	0.14	0.06	141	4	0.02	24	0.03	37	<3	<5	<2	<2	5	<5	18	101
Minimum Detection	0.1	0.01	3	3	1	3	0.01	0.1	1	1	1	0.01	0.01	0.01	1	1	0.01	1	0.01	2	3	5	2	2	1	5	3	1
Maximum Detection	50.0	10.00	2000	100	1000	1000	10.00	1000.0	20000	1000	20000	10.00	10.00	10.00	20000	1000	10.00	20000	10.00	20000	100	100	2000	1000	10000	100	1000	20000

< = Less than Minimum is = Insufficient Sample ns = No sample > = Greater than Maximum AuFA = Fire assay/AAS

ANOMALOUS RESULTS:
FURTHER ANALYSES
BY ALTERNATE
METHODS SUGGESTED

VGC VANGEOCHEM LAB LIMITED

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BATHURST, N.B.
MISSISSAUGA, ONT.
RENO, NEVADA, U.S.A.

REPORT NUMBER: 890103 GA   JOB NUMBER: 890103   RAM EXPLORATION

SAMPLE #	Au ppb
0BS001-01A	20
0BS001-02A	10
0BS002-01A	20
0BS002-03A	10
0BS003-01A	15
0BS003-02A	5
0BS003-03A1	5
0BS003-03A2	5
0BS003-04A	10
0BS003-05A	10
0BS003-06A	10
0BS003-07A	nd
0BS004-01A	10
0BS005-01A	5
0BS005-02A	15
0BS005-03A	nd
0BS005-04A	15
0BS005-05A	10
0BS005-06A	10
0BS007-01A	5
0BS007-02A	10
0BS007-03A	5
0BS008-01A	15
0BS008-02A	10
0BS008-03A	20
0BS008-04A	10
0BS008-05A	10
0BS008-06A	5
0BS008-07A	15
0BS009-01A	5
0BS009-02A	20
0BS009-03A	10
0BS009-04A	10
0BS009-05A	15
0BS009-06A	15
0BS009-07A	10
0BS009-08A	10
0BS009-09A	5
0BS009-10A	5
DETECTION LIMIT	5

nd = none detected   -- = not analysed   is = insufficient sample

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RENO, NEVADA, U.S.A

SAMPLE #	Au ppb
OBS009-11A	5
OBS009-12A	5
OBS009-13A	10
OBS009-14A	10
OBS009-16A	15
OBS009-17A	nd
OBS010-01A	5
OBS010-02A	nd
OBS010-03A	10
OBS011-01A	10
OBS012-01A	15
OBS012-02A	5
OBS013-01A	15
OBS014-01A	15
OBS014-02A	20
OBS014-03A	45
OBS014-04A	40
OBS016-01A	20
OBS016-02A	15
OBS016-03A	30
OBS017-01A	15
OBS017-02A	5
OBS018-01A	15
OBS018-02A	20
OBS018-03A	nd
OBS019-01A1	10
OBS019-01A2	25
OBS019-01A1	20
OBS019-02A2	10
OBS020-01A	30
OBS020-02A	15
OBS021-01A	30
OBS021-02A	15
OBS025-01A	10
OBS025-02A	20
OBS025-03A	10
OBS026-01A	15
OBS026-02A	20
OBS027-01A	20
DETECTION LIMIT	5

nd = none detected -- = not analysed is = insufficient sample

VGC VANGEOCHEM LAB LIMITED

MAIN OFFICE
1988 TRIUMPH ST.
VANCOUVER, B.C. V5L 1K5
• (604) 251-5656
• FAX (604) 254-5717

BRANCH OFFICES
PASADENA, NFLD.
BATHURST, N.B.
MISSISSAUGA, ONT.
RENO, NEVADA, U.S.A.

SAMPLE #	Au ppb
0BS028-01A	20
0BS028-02A	25
0BS028-03A	20
0BS028-04A	10
0BS028-05A	20
0BS028-06A	25
0BS028-07A	25
0BS028-08A	5
0BS028-09A	20
0BS029-01A	15
0BS029-02A	30
0BS030-01A	20
0BS030-02A	20
0BS031-01A	20
0BS031-02A	15
0BS032-01A	15
0BS032-02A	30
0BS033-01A	30
0BS033-02A	25
0BS033-03A	30
0BS033-04A	55
0BS033-05A	35
0BS033-06A	20
0BS033-07A	30
0BS033-08A	15
0BS033-09A	20
0BS034-01A	25
0BS034-02A	25
0BS034-03A	30
0BS034-04A	30
0BS034-05A	25
0BS034-06A	35
0BS034-07A	30
0BS034-08A	30
0BS034-09A	30
0BS035-01A	25
0BS035-02A	30
0BS035-03A	20
0BS035-04A	25
DETECTION LIMIT	5

nd = none detected -- = not analysed is = insufficient sample

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SAMPLE #	Au ppb
OBS035-05A	40
OBS035-06A	25
OBS035-07A	15
OBS035-08A	20
OBS035-09A	15
OBS036-01A	10
OBS036-02A	25
OBS036-03A	25
OBS036-04A	20
OBS036-05A	45
OBS036-06A	35
OBS036-07A	10
OBS036-08A	25
OBS036-09A	5
OBS037-01A	25
OBS037-02A	30
OBS037-03A	25
OBS037-04A	30
OBS037-05A	20
OBS037-06A	20
OBS037-07A	30
OBS037-08A	35
OBS037-10A	25
OBS038-01A	15
OBS038-02A	30
OBS038-03A	30
OBS038-04A	55
OBS038-05A	30
OBS038-06A	20
OBS038-07A	40
OBS038-08A	30
OBS038-09A	40
OBS038-10A	35
OBS039-01A	20
OBS039-02A	25
OBS039-03A	20
OBS039-04A	15
OBS039-05A	30
OBS039-06A	25
DETECTION LIMIT	5

nd = none detected -- = not analysed is = insufficient sample

VGC VANGEOCHEM LAB LIMITED

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BRANCH OFFICES
PASADENA, NFLD.
BATHURST, N.B.
MISSISSAUGA, ONT.
RENO, NEVADA, U.S.A.

REPORT NUMBER: 890103 GA JOB NUMBER: 890103 RAM EXPLORATION

SAMPLE #	Au ppb
OBS039-07A	15
UNKNOWN	15
OBS015-04A	40

DETECTION LIMIT 5

nd = none detected -- = not analysed is = insufficient sample

VANGEOCHEM LAB LIMITED

1988 Triumph Street, Vancouver, B.C. V5L 1K5
Ph:(604)251-5656 Fax:(604)254-5717

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO_3 to H_2O at 95 °C for 90 minutes and is diluted to 10 ml with water.
This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Pd, Pt, Sn, Sr and W.

ANALYST: [signature]

REPORT #: 890103 PA RAM EXPL. Proj: FISSURE Date In: 88/08/21 Date Out:89/02/28 Att: CARL

Sample Number	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Pd	Pt	Sb	Sn	Sr	U	W	Zn
	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
OBS001-01A	[illegible]	0.55	19	<3	39	<3	0.01	1.3	7	41	38	4.37	0.16	0.02	210	8	0.02	45	0.01	70	<3	5	<2	<2	7	<5	<3	34
OBS001-02A	[illegible]	0.61	21	<3	40	<3	0.01	0.6	5	44	39	3.73	0.14	0.03	185	9	0.02	30	0.05	46	3	<5	<2	<2	6	<5	<3	68
OBS002-01A	[illegible]	1.15	31	<3	74	<3	0.01	0.9	1	126	33	4.01	0.15	0.02	119	5	0.04	25	0.05	129	3	<5	<2	<2	18	5	3	74
OBS002-03A	[illegible]	0.69	17	3	37	<3	0.01	1.2	4	118	54	5.31	0.19	0.04	300	4	0.02	17	0.04	58	<3	<5	<2	<2	6	<5	<3	78
OBS003-01A	[illegible]	0.67	16	<3	29	<3	0.01	0.6	2	44	77	3.84	0.14	0.11	123	4	0.02	48	0.05	142	<3	<5	<2	<2	5	<5	<3	38
OBS003-02A	[illegible]	0.93	6	<3	42	<3	0.01	1.1	2	159	115	5.02	0.18	0.14	166	6	0.03	61	0.05	675	<3	<5	<2	<2	8	<5	<3	268
OBS003-03A1	[illegible]	0.97	12	<3	36	<3	0.01	1.2	3	127	74	4.38	0.16	0.22	139	5	0.02	41	0.06	91	3	<5	<2	<2	6	<5	[illegible]	86
OBS003-03A2	[illegible]	[illegible]	7	<3	37	<3	0.01	0.9	2	109	76	4.63	0.17	0.22	128	5	0.02	40	0.05	135	<3	<5	<2	<2	6	<5	<3	102
OBS003-04A	[illegible]	1.00	5	3	40	4	0.01	1.3	3	189	75	4.94	0.18	0.22	166	6	0.02	15	0.06	100	3	<5	<2	<2	6	<5	[illegible]	96
OBS003-05A	[illegible]	[illegible]	[illegible]	<3	38	6	0.01	1.3	2	86	83	5.28	0.19	0.22	137	4	0.03	14	[illegible]	216	3	<5	<2	<2	6	<5	3	139
OBS003-06A	[illegible]	1.16	11	<3	50	<3	0.01	1.5	2	65	76	5.21	0.19	0.30	133	4	0.03	32	0.06	171	<3	<5	<2	<2	7	<5	[illegible]	126
OBS003-07A	[illegible]	1.64	<3	3	47	18	0.01	2.1	5	40	134	7.71	0.28	0.42	152	3	0.03	24	0.04	105	<3	<5	4	<2	5	<5	[illegible]	148
OBS004-01A	[illegible]	1.35	11	<3	33	7	0.01	1.2	3	93	45	4.49	0.16	0.50	254	3	0.02	22	0.05	69	<3	<5	<2	<2	5	<5	<3	89
OBS005-01A	[illegible]	[illegible]	<3	<3	133	<3	0.01	1.3	2	136	41	4.19	0.15	0.40	299	8	0.03	43	0.04	181	3	<5	<2	2	8	<5	<3	104
OBS005-02A	[illegible]	0.84	8	3	38	<3	0.01	1.1	5	68	75	4.80	0.17	0.17	179	4	0.02	36	0.06	135	<3	<5	<2	<2	6	<5	<3	110
OBS005-03A	[illegible]	[illegible]	14	<3	42	<3	0.01	1.5	1	98	48	5.28	0.19	0.25	573	4	0.03	10	0.09	230	<3	<5	<2	<2	6	<5	3	84
OBS005-04A	**25.4**	1.25	19	3	33	9	0.01	**13.3**	13	87	**522**	4.26	0.15	0.43	209	6	0.04	**164**	0.08	95	3	<5	**7**	<2	5	<5	**960**	**557**
OBS005-05A	[illegible]	1.15	31	<3	43	4	0.01	1.7	1	39	80	4.54	0.16	0.20	87	2	0.03	26	0.07	63	<3	<5	<2	<2	7	<5	<3	72
OBS005-06A	>50.0	1.09	25	<3	28	6	0.01	**40.2**	92	86	**1720**	4.32	0.16	0.34	259	9	0.04	**562**	0.05	56	<3	<5	**7**	<2	5	<5	**999**	**1831**
OBS007-01A	[illegible]	0.99	[illegible]	<3	27	24	0.01	**10.6**	5	54	**209**	8.96	0.33	0.12	31	4	0.03	29	0.06	77	<3	<5	**3**	<2	4	<5	70	138
OBS007-02A	5.2	0.89	<3	<3	34	14	0.01	4.4	16	79	**198**	6.92	0.25	0.14	121	6	0.03	65	0.08	45	<3	<5	<2	<2	5	<5	**224**	163
OBS007-03A	[illegible]	0.76	11	<3	31	3	0.01	2.7	7	47	112	5.52	0.20	0.09	143	3	0.02	23	0.10	45	<3	<5	<2	2	5	<5	19	82
OBS008-01A	**37.5**	1.56	9	<3	39	<3	0.01	**18.2**	15	79	**267**	4.24	0.15	0.47	145	6	0.02	73	0.06	84	<3	<5	<2	3	6	<5	**159**	**268**
OBS008-02A	**16.1**	1.20	16	<3	35	<3	0.01	**8.6**	5	43	172	4.52	0.16	0.24	77	4	0.02	45	0.07	73	<3	<5	<2	<2	6	<5	**40**	156
OBS008-03A	**19.5**	1.18	12	<3	35	<3	0.01	**9.6**	7	66	**189**	3.19	0.11	0.28	92	3	0.02	35	0.05	48	<3	<5	<2	<2	5	<5	6	**179**
OBS008-04A	**13.6**	1.35	5	<3	36	3	0.01	**7.6**	5	47	**173**	4.86	0.18	0.27	82	4	0.02	39	0.05	54	<3	<5	<2	<2	7	<5	<3	160
OBS008-05A	1.9	1.27	18	<3	36	<3	0.01	1.8	14	52	114	3.19	0.11	0.29	79	3	0.02	28	0.05	52	<3	<5	<2	<2	5	<5	**30**	111
OBS008-06A	3.3	1.63	12	<3	39	<3	0.01	5.5	5	67	145	4.04	0.15	0.36	99	3	0.02	31	0.08	52	<3	<5	<2	<2	6	<5	<3	147
OBS008-07A	3.2	1.11	20	<3	33	<3	0.01	2.5	4	83	147	4.71	0.17	0.24	61	4	0.02	23	0.06	67	<3	<5	<2	<2	5	<5	<3	139
OBS009-01A	**13.5**	0.60	31	<3	33	<3	0.01	6.7	8	29	139	2.99	0.11	0.02	93	3	0.02	29	0.06	55	<3	<5	<2	<2	[illegible]	<5	**32**	[illegible]
OBS009-02A	5.2	0.55	26	<3	33	<3	0.01	3.1	6	53	92	2.99	0.11	0.02	86	4	0.02	40	0.06	60	<3	5	<2	2	7	<5	3	126
OBS009-03A	[illegible]	0.53	26	<3	32	<3	0.01	4.3	6	44	84	3.17	0.11	0.01	101	3	0.01	22	0.06	57	<3	<5	<2	<2	7	<5	<3	114
OBS009-04A	[illegible]	[illegible]	24	3	26	<3	0.01	1.9	5	85	64	3.08	0.11	0.01	91	4	0.01	47	0.05	54	<3	<5	<2	<2	6	5	<3	81
OBS009-05A	[illegible]	0.45	24	3	32	<3	0.01	1.3	5	58	54	2.69	0.10	0.02	93	4	0.01	41	0.05	36	<3	<5	<2	<2	6	<5	<3	76
OBS009-06A	[illegible]	0.55	32	<3	34	<3	0.01	1.3	5	68	72	3.11	0.11	0.01	83	4	0.02	21	0.05	58	3	<5	<2	<2	8	<5	<3	101
OBS009-07A	[illegible]	[illegible]	32	<3	36	<3	0.01	3.1	5	41	98	3.05	0.11	0.01	82	3	0.02	30	0.06	56	<3	<5	<2	<2	9	<5	<3	136
OBS009-08A	2.5	0.76	25	3	45	<3	0.01	2.1	6	29	71	3.38	0.12	0.01	94	2	0.02	22	0.07	58	<3	<5	<2	<2	11	5	<3	101
OBS009-09A	**39.5**	[illegible]	29	<3	42	3	0.01	**18.8**	12	44	136	3.65	0.13	0.01	103	4	0.02	67	0.08	62	3	<5	<2	<2	10	<5	[illegible]	179
[illegible]	[illegible]	[illegible]	22	[illegible]	27	<3	[illegible]	1.7	[illegible]	103	65	2.36	0.11	0.01	81	5	0.02	[illegible]	0.05	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5	[illegible]	[illegible]

Sample Number	Ag ppm	Al %	As ppm	Au ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Pd ppm	Pt ppm	Sb ppm	Sn ppm	Sr ppm	U ppm	W ppm	Zn ppm
OBS009-11A	8.6	0.49	25	<3	32	<3	0.01	4.2	9	49	129	2.50	0.09	0.01	87	2	0.02	55	0.04	41	<3	<5	<2	<2	6	<5	56	173
OBS009-12A	28.6	0.41	23	<3	31	<3	0.01	14.1	6	149	94	2.74	0.10	0.01	121	7	0.01	83	0.05	39	<3	<5	<2	<2	6	<5	<3	117
OBS009-13A	2.5	0.54	22	<3	38	<3	0.01	1.2	5	37	66	2.56	0.09	0.01	98	2	0.01	26	0.05	32	<3	<5	<2	<2	7	<5	<3	94
OBS009-14A	2.2	0.52	23	<3	37	<3	0.01	1.2	5	56	65	2.69	0.10	0.01	83	3	0.01	53	0.06	35	<3	<5	<2	<2	7	<5	<3	90
OBS009-16A	4.1	0.52	28	<3	31	<3	0.01	2.1	10	22	65	2.74	0.10	0.01	79	2	0.01	27	0.05	43	<3	<5	<2	<2	8	<5	<3	94
OBS009-17A	0.9	0.45	29	<3	32	<3	0.01	0.5	5	52	43	3.11	0.11	0.01	84	3	0.02	42	0.07	46	<3	<5	<2	<2	8	<5	<3	70
OBS010-01A	0.8	0.56	27	<3	32	<3	0.01	0.6	7	29	61	3.62	0.13	0.03	98	1	0.01	20	0.04	36	<3	<5	<2	<2	7	<5	<3	72
OBS010-02A	7.8	0.74	23	3	30	<3	0.01	4.2	10	92	109	3.57	0.13	0.18	173	4	0.01	87	0.04	35	<3	<5	<2	<2	8	<5	<3	157
OBS010-03A	3.7	0.56	25	<3	32	<3	0.01	1.7	6	48	77	2.84	0.10	0.07	93	2	0.01	33	0.04	28	<3	<5	<2	<2	7	<5	<3	94
OBS011-01A	3.8	0.81	23	<3	30	<3	0.01	2.4	19	46	122	3.49	0.13	0.22	122	2	0.02	38	0.05	36	<3	<5	<2	<2	6	<5	111	147
OBS012-01A	1.5	0.62	26	<3	27	<3	0.01	0.9	18	79	97	2.93	0.11	0.10	110	3	0.02	60	0.04	42	<3	<5	<2	<2	5	<5	45	120
OBS012-02A	2.1	0.63	33	<3	34	<3	0.01	1.2	9	28	60	3.42	0.12	0.07	120	2	0.02	22	0.06	44	<3	<5	<2	<2	6	<5	<3	78
OBS013-01A	4.1	1.05	15	<3	35	<3	0.01	0.5	15	66	55	4.26	0.16	0.24	257	3	0.02	63	0.04	40	<3	<5	<2	<2	5	<5	<3	102
OBS014-01A	6.1	1.05	9	<3	32	<3	0.01	3.6	15	36	62	4.39	0.16	0.24	395	2	0.02	23	0.04	45	<3	<5	<2	<2	5	<5	<3	81
OBS014-02A	8.3	0.96	9	<3	37	<3	0.01	4.5	33	47	54	4.96	0.19	0.15	1525	3	0.02	42	0.04	44	<3	<5	<2	<2	5	<5	<3	109
OBS014-03A	19.2	0.76	<3	<3	49	27	0.01	11.8	130	32	108	>10.00	0.41	0.04	5289	3	0.04	185	0.02	48	<3	<5	18	<2	6	<5	<3	572
OBS014-04A	44.1	0.77	8	<3	55	20	0.01	22.4	161	31	133	8.92	0.35	0.05	7078	3	0.04	190	0.02	50	<3	<5	15	<2	6	<5	30	511
OBS016-01A	0.4	0.38	30	<3	31	<3	0.01	0.1	11	16	40	2.94	0.11	0.01	204	1	0.02	32	0.02	36	<3	<5	<2	<2	4	<5	<3	87
OBS016-02A	0.5	0.32	23	<3	28	<3	0.01	0.4	11	52	50	2.65	0.09	0.01	166	2	0.02	28	0.01	33	<3	<5	<2	<2	4	<5	<3	91
OBS016-03A	0.4	0.72	24	<3	35	<3	0.01	0.3	9	17	48	2.97	0.11	0.01	163	2	0.02	27	0.02	56	<3	<5	<2	<2	5	<5	<3	65
OBS017-01A	0.4	0.45	27	<3	33	<3	0.01	0.4	11	48	59	3.70	0.13	0.01	158	3	0.02	36	0.01	51	<3	<5	<2	<2	5	<5	<3	77
OBS017-02A	0.9	0.40	42	<3	35	<3	0.01	0.4	8	47	54	2.75	0.10	0.01	100	2	0.02	26	0.02	50	<3	<5	<2	<2	5	<5	<3	77
OBS018-01A	0.3	0.76	9	<3	32	<3	0.01	0.4	4	84	69	3.68	0.13	0.09	148	3	0.02	12	0.04	30	<3	<5	<2	<2	6	<5	<3	53
OBS018-02A	1.4	1.33	<3	<3	26	<3	0.01	0.4	15	89	78	3.01	0.11	0.09	737	4	0.02	47	0.06	32	<3	<5	<2	<2	4	<5	<3	58
OBS018-03A	0.9	0.83	9	<3	24	<3	0.01	0.4	6	110	67	3.16	0.12	0.11	206	4	0.02	21	0.04	40	<3	<5	<2	<2	5	<5	<3	75
OBS019-01A1	1.7	0.54	26	<3	35	<3	0.01	0.9	13	125	83	2.94	0.11	0.01	162	3	0.02	42	0.01	36	<3	<5	<2	<2	5	<5	160	133
OBS019-01A2	14.1	0.82	16	<3	33	<3	0.01	6.3	5	25	50	3.59	0.13	0.11	123	2	0.02	21	0.06	47	<3	<5	<2	<2	7	<5	49	90
OBS019-02A1	1.2	1.56	<3	<3	32	<3	0.01	0.4	17	99	99	2.95	0.11	0.05	503	2	0.02	20	0.07	34	<3	<5	<2	<2	6	<5	<3	73
OBS019-02A2	1.1	0.98	11	<3	31	<3	0.01	0.9	15	46	77	3.65	0.13	0.18	435	3	0.02	39	0.08	48	<3	<5	<2	<2	6	<5	40	83
OBS020-01A	30.1	0.94	15	<3	19	3	0.01	9.5	31	30	570	4.81	0.18	0.21	253	4	0.03	169	0.05	51	<3	<5	12	<2	7	<5	786	563
OBS020-02A	1.6	1.70	8	<3	35	<3	0.01	0.4	31	85	74	2.98	0.11	0.10	918	4	0.02	59	0.09	39	<3	<5	<2	<2	6	<5	<3	72
OBS021-01A	1.5	1.57	<3	<3	37	<3	0.01	0.8	24	63	95	3.37	0.13	0.11	856	3	0.02	29	0.08	43	<3	<5	<2	<2	7	<5	89	90
OBS021-02A	0.1	0.44	17	<3	30	<3	0.01	0.1	2	71	40	1.64	0.06	0.01	43	3	0.01	37	0.04	40	<3	<5	<2	<2	8	<5	<3	33
OBS025-01A	0.2	0.42	26	<3	29	<3	0.01	0.1	8	25	110	2.60	0.09	0.01	134	2	0.01	34	0.06	38	<3	<5	<2	<2	6	<5	220	115
OBS025-02A	1.4	0.41	16	<3	28	<3	0.01	0.4	5	59	45	3.34	0.12	0.01	93	2	0.01	33	0.07	42	<3	<5	<2	<2	8	<5	<3	54
OBS025-03A	0.1	0.41	7	<3	39	<3	0.02	0.1	1	16	31	1.93	0.07	0.01	54	1	0.01	5	0.01	26	<3	<5	<2	<2	9	<5	<3	44
OBS026-01A	0.4	0.48	26	<3	30	<3	0.01	0.4	4	36	95	3.28	0.12	0.01	59	3	0.02	29	0.12	52	<3	<5	<2	<2	7	<5	<3	74
OBS026-02A	0.1	0.54	32	<3	35	<3	0.02	0.3	9	39	70	3.49	0.13	0.01	96	3	0.02	37	0.32	56	<3	<5	<2	<2	18	<5	<3	81
OBS027-01A	0.1	0.53	35	<3	35	<3	0.01	0.3	6	29	79	3.54	0.13	0.01	95	2	0.02	23	0.15	48	<3	<5	<2	<2	12	<5	<3	70
Minimum Detection	0.1	0.01	3	3	1	3	0.01	0.1	1	1	1	0.01	0.01	0.01	1	1	0.01	1	0.01	2	3	5	2	2	1	5	3	1
Maximum Detection	50.0	10.00	2000	100	1000	1000	10.00	1000.0	20000	1000	20000	10.00	10.00	10.00	20000	1000	10.00	20000	10.00	20000	100	100	2000	1000	10000	100	1000	20000

< = Less than Minimum is = Insufficient Sample ns = No sample > = Greater than Maximum AuFA = Fire assay/AA

Sample Number	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Pd	Pt	Sb	Sn	Sr	U	W	Zn
	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
0BS028-01A	0.1	0.81	20	<3	34	<3	0.01	0.4	8	55	52	3.65	0.13	0.19	183	3	0.02	46	0.05	51	<3	<5	<2	<2	6	<5	<3	102
0BS028-02A	0.1	0.86	18	<3	34	<3	0.01	0.5	10	53	54	3.88	0.14	0.20	227	3	0.02	46	0.05	45	<3	<5	<2	<2	6	<5	<3	114
0BS028-03A	5.4	1.05	13	<3	37	<3	0.01	3.2	12	37	55	3.89	0.14	0.31	307	2	0.02	30	0.04	52	<3	<5	<2	<2	6	<5	<3	172
0BS028-04A	1.3	0.86	16	<3	35	<3	0.01	1.1	13	59	53	3.89	0.14	0.20	304	3	0.02	55	0.04	44	<3	<5	<2	<2	6	<5	<3	161
0BS028-05A	0.1	0.96	15	<3	40	<3	0.01	0.6	11	41	49	3.58	0.13	0.21	284	1	0.02	29	0.04	45	<3	<5	<2	<2	6	<5	<3	115
0BS028-06A	1.5	1.15	28	<3	41	<3	0.02	1.2	8	54	65	4.04	0.15	0.32	171	3	0.02	48	0.06	53	<3	<5	<2	<2	10	<5	<3	92
0BS028-07A	13.2	1.37	20	<3	45	6	0.02	7.1	9	40	81	4.27	0.16	0.45	194	2	0.02	35	0.06	54	<3	<5	<2	<2	11	<5	<3	115
0BS028-08A	3.7	1.23	23	<3	35	<3	0.02	2.1	7	71	58	4.03	0.15	0.46	193	3	0.02	54	0.05	49	<3	<5	<2	<2	10	<5	<3	86
0BS028-09A	6.4	1.55	17	<3	41	<3	0.03	3.7	7	125	63	4.10	0.15	0.64	212	6	0.02	34	0.06	48	<3	<5	<2	<2	11	<5	<3	107
0BS029-01A	0.9	0.86	20	<3	40	<3	0.01	0.4	5	32	28	3.12	0.11	0.17	385	2	0.03	16	0.04	50	<3	<5	<2	<2	8	<5	<3	66
0BS029-02A	1.1	0.84	24	<3	35	<3	0.01	0.5	6	44	30	3.41	0.12	0.19	376	3	0.03	34	0.04	49	<3	<5	<2	<2	7	<5	<3	73
0BS030-01A	2.2	1.02	18	<3	36	<3	0.01	1.2	15	52	34	3.28	0.12	0.24	448	2	0.03	19	0.03	47	<3	<5	<2	<2	6	<5	<3	76
0BS030-02A	17.7	0.98	18	<3	39	<3	0.01	8.5	11	59	70	3.92	0.14	0.24	244	3	0.02	53	0.04	47	<3	<5	<2	<2	6	<5	<3	113
0BS031-01A	1.5	1.12	17	<3	46	<3	0.01	0.9	7	62	93	3.60	0.13	0.30	138	3	0.02	40	0.04	52	<3	<5	<2	<2	6	<5	151	128
0BS031-02A	2.6	1.04	17	<3	40	<3	0.01	1.4	12	53	46	3.13	0.12	0.20	605	2	0.03	23	0.04	44	<3	<5	<2	<2	6	<5	<3	64
0BS032-01A	4.1	1.75	23	<3	40	14	0.03	3.2	27	49	142	5.64	0.21	0.73	955	4	0.03	109	0.04	51	<3	<5	14	<2	9	<5	261	254
0BS032-02A	1.1	1.23	12	<3	34	11	0.03	1.4	14	68	56	5.43	0.21	0.47	1216	3	0.03	69	0.04	48	<3	<5	<2	<2	8	<5	<3	179
0BS033-01A	3.7	0.78	17	<3	36	<3	0.01	1.7	7	149	62	3.77	0.14	0.12	151	7	0.02	26	0.04	44	<3	<5	<2	<2	6	<5	<3	65
0BS033-02A	0.3	0.71	14	<3	45	<3	0.01	0.1	2	44	42	3.34	0.12	0.04	82	2	0.02	27	0.06	46	<3	<5	<2	<2	8	<5	<3	49
0BS033-03A	0.3	0.75	18	<3	46	<3	0.01	0.1	3	31	29	2.89	0.11	0.04	81	2	0.02	16	0.05	54	<3	<5	<2	<2	10	<5	<3	50
0BS033-04A	0.2	0.61	14	<3	34	<3	0.01	0.1	7	59	49	3.31	0.12	0.04	154	3	0.02	43	0.04	43	<3	<5	<2	<2	6	<5	<3	64
0BS033-05A	0.5	0.63	19	<3	34	<3	0.01	0.4	15	57	46	4.10	0.15	0.05	374	2	0.02	27	0.03	52	<3	<5	<2	<2	6	<5	<3	67
0BS033-06A	0.1	0.50	18	<3	34	<3	0.01	0.1	2	32	39	3.54	0.13	0.01	55	1	0.02	8	0.06	40	<3	<5	<2	<2	7	<5	<3	59
0BS033-07A	0.1	0.60	18	<3	43	<3	0.01	0.1	2	35	20	2.18	0.08	0.01	42	2	0.01	6	0.03	36	<3	<5	<2	<2	8	<5	<3	42
0BS033-08A	0.2	0.69	19	<3	46	<3	0.01	0.4	2	48	47	4.08	0.15	0.02	51	3	0.02	29	0.09	46	<3	<5	<2	<2	10	<5	<3	58
0BS033-09A	0.1	0.61	17	<3	35	<3	0.01	0.1	3	51	39	3.26	0.12	0.05	84	2	0.01	11	0.04	36	<3	<5	<2	<2	6	<5	<3	52
0BS034-01A	5.6	0.73	15	<3	37	<3	0.01	3.5	8	65	74	3.41	0.12	0.10	150	4	0.02	47	0.03	48	<3	<5	<2	<2	7	<5	<3	91
0BS034-02A	0.6	0.63	17	<3	27	<3	0.01	0.6	11	50	48	3.63	0.13	0.10	269	3	0.02	39	0.03	51	<3	<5	<2	<2	5	<5	<3	80
0BS034-03A	0.1	0.69	14	<3	35	<3	0.01	0.1	4	45	37	3.51	0.13	0.04	115	2	0.02	13	0.04	36	<3	<5	<2	<2	6	<5	<3	56
0BS034-04A	0.1	0.61	14	<3	28	<3	0.01	0.1	5	69	36	3.38	0.12	0.06	109	3	0.01	44	0.03	39	<3	<5	<2	<2	5	<5	<3	61
0BS034-05A	2.7	0.63	20	<3	30	<3	0.01	1.2	10	30	103	3.73	0.14	0.07	147	2	0.02	38	0.03	41	<3	<5	<2	<2	5	<5	<3	133
0BS034-06A	1.1	0.76	12	<3	35	<3	0.01	1.1	8	123	78	4.46	0.16	0.12	193	6	0.02	56	0.04	42	<3	<5	<2	<2	6	<5	<3	89
0BS034-07A	7.5	0.71	15	<3	33	<3	0.01	2.9	9	65	92	4.37	0.16	0.11	190	4	0.02	65	0.04	47	<3	<5	<2	<2	6	<5	<3	128
0BS034-08A	6.6	0.61	15	<3	33	<3	0.01	7.1	17	56	106	3.84	0.14	0.05	313	2	0.02	40	0.03	43	<3	<5	<2	<2	6	<5	<3	157
0BS034-09A	8.4	0.61	15	<3	34	<3	0.01	6.7	17	56	112	3.82	0.14	0.05	313	3	0.02	42	0.03	42	<3	<5	2	<2	6	<5	<3	162
0BS035-01A	20.2	0.95	11	<3	27	3	0.01	10.5	11	66	114	4.34	0.16	0.33	178	4	0.02	66	0.03	42	<3	<5	2	<2	4	<5	322	160
0BS035-02A	20.7	1.63	<3	<3	25	7	0.01	10.5	30	34	430	4.17	0.15	0.72	202	5	0.02	66	0.01	38	<3	<5	3	7	2	<5	215	400
0BS035-03A	4.7	1.20	9	<3	30	<3	0.01	2.7	13	64	135	3.81	0.14	0.40	176	3	0.02	36	0.03	43	<3	<5	<2	2	4	<5	66	151
0BS035-04A	2.1	1.60	6	<3	35	<3	0.01	1.8	19	87	190	4.37	0.16	0.62	205	6	0.02	87	0.03	46	<3	<5	2	<2	5	<5	129	224
Minimum Detection	0.1	0.01	3	3	1	3	0.01	0.1	1	1	1	0.01	0.01	0.01	1	1	0.01	1	0.01	2	3	5	2	2	1	5	3	1
Maximum Detection	50.0	10.00	2000	100	1000	1000	10.00	1000.0	20000	1000	20000	10.00	10.00	10.00	20000	1000	10.00	20000	10.00	20000	100	100	2000	1000	10000	100	1000	20000

< = Less than Minimum is = Insufficient Sample ns = No sample > = Greater than Maximum AuFA = Fire assay/AAS

Sample Number	Ag ppm	Al %	As ppm	Au ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Pd ppm	Pt ppm	Sb ppm	Sn ppm	Sr ppm	U ppm	W ppm	Zn ppm
0BS035-05A	>50.0	1.06	11	<3	30	<3	0.01	27.2	161	50	2511	4.41	0.16	0.32	368	18	0.04	199	0.03	42	<3	<5	<2	64	4	<5	234	1723
0BS035-06A	>50.0	1.42	<3	<3	29	5	0.01	55.2	75	107	1280	4.50	0.17	0.56	266	9	0.03	275	0.02	39	<3	<5	<2	30	3	<5	54	998
0BS035-07A	1.3	1.34	7	<3	34	<3	0.01	1.5	9	47	94	3.95	0.15	0.44	196	2	0.02	31	0.03	46	<3	<5	<2	<2	5	<5	<3	124
0BS035-08A	2.1	1.53	12	<3	24	4	0.01	2.1	27	121	185	5.09	0.19	0.73	273	6	0.02	98	0.02	48	<3	<5	4	6	4	<5	136	233
0BS035-09A	9.1	1.10	13	<3	31	<3	0.01	4.9	35	94	406	3.49	0.13	0.37	227	6	0.02	58	0.02	40	<3	<5	<2	12	5	<5	433	320
0BS036-01A	0.1	0.79	11	<3	31	<3	0.01	1.3	38	121	59	5.54	0.21	0.13	2179	5	0.03	141	0.02	59	<3	<5	<2	<2	5	<5	<3	208
0BS036-02A	0.2	1.01	17	<3	42	<3	0.07	1.1	24	40	75	4.77	0.19	0.59	1025	2	0.02	68	0.05	58	<3	<5	<2	<2	13	<5	<3	148
0BS036-03A	1.0	0.50	22	<3	38	<3	0.01	0.7	8	40	106	3.03	0.11	0.01	153	2	0.02	39	0.05	41	<3	<5	<2	<2	7	<5	<3	92
0BS036-04A	8.3	0.42	28	<3	35	<3	0.01	4.1	11	33	110	3.34	0.12	0.01	156	2	0.02	29	0.06	52	<3	<5	<2	3	6	<5	<3	124
0BS036-05A	25.7	0.55	30	<3	42	<3	0.01	13.2	11	52	301	4.61	0.17	0.05	177	5	0.03	68	0.09	71	<3	<5	<2	8	7	<5	149	237
0BS036-06A	0.2	0.98	12	<3	63	13	0.01	1.5	86	42	52	7.28	0.30	0.19	7851	2	0.04	257	0.03	48	<3	<5	<2	<2	7	<5	<3	317
0BS036-07A	0.2	1.04	12	<3	43	5	0.04	0.8	26	63	79	4.75	0.18	0.46	1148	4	0.02	98	0.04	60	<3	<5	<2	<2	11	<5	<3	150
0BS036-08A	0.3	0.46	16	<3	36	<3	0.01	0.3	8	39	74	3.95	0.15	0.03	231	1	0.02	29	0.06	74	<3	<5	<2	<2	7	<5	<3	132
0BS036-09A	>50.0	0.48	29	<3	37	<3	0.01	33.7	15	40	275	2.86	0.10	0.01	176	4	0.02	43	0.02	50	<3	<5	<2	12	5	<5	42	169
0BS037-01A	5.2	1.12	8	<3	43	<3	0.01	3.4	39	47	84	5.02	0.19	0.29	2107	3	0.03	74	0.04	46	<3	<5	<2	<2	6	<5	<3	137
0BS037-02A	1.3	0.92	17	<3	41	<3	0.02	1.1	17	41	82	4.37	0.16	0.30	601	2	0.02	43	0.05	53	<3	<5	<2	<2	8	<5	<3	122
0BS037-03A	2.1	0.97	17	<3	37	<3	0.11	1.5	16	42	85	3.95	0.16	0.60	370	2	0.02	45	0.05	51	<3	<5	<2	<2	14	<5	<3	121
0BS037-04A	0.7	0.77	25	<3	35	<3	0.07	0.5	17	45	59	4.02	0.16	0.51	383	3	0.02	64	0.04	50	<3	<5	<2	<2	12	<5	<3	121
0BS037-05A	5.5	1.06	18	<3	37	<3	0.01	3.1	11	34	66	4.27	0.16	0.33	237	2	0.02	37	0.04	50	<3	<5	<2	<2	6	<5	<3	111
0BS037-06A	>50.0	0.48	24	<3	29	6	0.08	77.1	369	67	5653	4.93	0.19	0.05	654	44	0.07	395	0.14	99	<3	<5	<2	126	9	<5	491	3902
0BS037-07A	2.8	1.14	3	<3	54	15	0.01	3.5	97	31	111	8.09	0.32	0.21	6003	3	0.03	109	0.05	52	<3	<5	5	<2	6	<5	<3	255
0BS037-08A	1.6	0.81	18	<3	37	<3	0.05	1.5	20	54	134	4.32	0.17	0.40	466	4	0.02	71	0.05	57	<3	<5	<2	2	11	<5	<3	174
0BS037-10A	2.7	0.81	20	<3	39	<3	0.11	2.1	22	33	127	4.21	0.17	0.47	469	3	0.02	50	0.05	53	<3	<5	<2	<2	15	<5	<3	186
0BS038-01A	>50.0	0.55	12	<3	44	<3	0.01	26.8	45	53	389	4.51	0.17	0.02	1302	6	0.02	75	0.03	43	<3	<5	<2	11	6	<5	348	274
0BS038-02A	3.7	0.58	19	<3	42	<3	0.01	2.5	14	92	66	3.55	0.13	0.02	360	5	0.02	23	0.02	48	<3	<5	<2	2	6	<5	<3	91
0BS038-033A	0.6	0.56	25	<3	28	<3	0.01	0.8	12	123	66	4.40	0.16	0.02	233	6	0.02	66	0.04	55	<3	<5	<2	<2	5	<5	<3	120
0BS038-04A	0.5	0.59	14	<3	30	<3	0.01	0.6	12	41	46	4.41	0.16	0.03	223	2	0.02	28	0.03	60	<3	<5	<2	<2	5	<5	<3	109
0BS038-05A	0.6	0.57	20	<3	31	<3	0.01	0.5	5	75	46	3.88	0.14	0.02	280	4	0.02	52	0.02	56	<3	<5	<2	<2	5	<5	<3	85
0BS038-06A	0.5	0.59	28	<3	30	<3	0.01	0.3	13	41	62	4.25	0.16	0.02	186	2	0.02	34	0.03	68	<3	<5	<2	<2	5	<5	<3	119
0BS038-07A	0.6	0.87	19	<3	46	<3	0.01	0.5	11	64	51	4.20	0.16	0.04	238	3	0.02	46	0.03	62	<3	<5	<2	<2	7	<5	<3	102
0BS038-08A	0.1	0.75	15	<3	35	<3	0.01	0.6	18	30	56	4.80	0.19	0.03	2782	2	0.02	56	0.04	51	<3	<5	<2	<2	7	<5	<3	170
0BS038-09A	0.5	0.55	18	<3	27	<3	0.01	0.1	9	104	48	3.41	0.12	0.03	155	4	0.02	65	0.03	53	<3	<5	<2	<2	5	<5	<3	92
0BS038-10A	0.2	0.67	17	<3	32	<3	0.01	0.7	8	65	47	4.60	0.17	0.02	232	4	0.02	56	0.03	59	<3	<5	<2	<2	7	<5	<3	80
0BS039-01A	10.5	0.76	23	<3	35	<3	0.01	5.5	30	25	348	4.46	0.16	0.05	196	6	0.02	60	0.04	55	<3	<5	<2	2	6	<5	357	358
0BS039-02A	>50.0	0.45	13	<3	25	<3	0.01	103.1	131	94	2553	3.42	0.13	0.03	307	18	0.03	203	0.02	40	<3	<5	<2	68	4	<5	169	1685
0BS039-03A	8.5	0.72	15	<3	39	3	0.01	5.1	15	53	146	3.94	0.14	0.12	191	3	0.02	33	0.03	49	<3	<5	<2	<2	7	<5	<3	174
0BS039-04A	11.5	0.69	15	<3	36	<3	0.01	7.5	21	57	220	3.42	0.12	0.06	144	5	0.02	68	0.03	49	<3	<5	<2	2	7	<5	168	239
0BS039-05A	18.6	0.64	11	<3	21	<2	0.01	11.4	61	38	741	3.91	0.14	0.08	202	8	0.03	134	0.03	49	<3	<5	<2	3	6	<5	112	802
0BS039-06A	30.7	0.66	4	<3	27	7	0.02	20.5	61	53	773	6.93	0.26	0.10	190	12	0.03	163	0.03	40	<3	<5	16	<2	5	<5	411	792
Minimum Detection	0.1	0.01	3	3	1	3	0.01	0.1	1	1	1	0.01	0.01	0.01	1	1	0.01	1	0.01	2	3	5	2	2	1	5	3	1
Maximum Detection	50.0	10.00	2000	100	1000	1000	10.00	1000.0	20000	1000	20000	10.00	10.00	10.00	20000	1000	10.00	20000	10.00	20000	100	100	2000	1000	10000	100	1000	20000

< = Less than Minimum is = Insufficient Sample ns = No sample > = Greater than Maximum AuFA = Fire assay/AAS

REPORT #: 890103 PA RAM EXPL. Proj: FISSURE Date In: 88/08/21 Date Out:89/02/28 Att: CARL

Sample Number	Ag ppm	Al %	As ppm	Au ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Pd ppm	Pt ppm	Sb ppm	Sn ppm	Sr ppm	U ppm	W ppm	Zn ppm
DBS039-07A	4.8	0.73	7	<3	28	<3	0.01	3.9	10	35	165	6.27	0.23	0.12	138	4	0.02	28	0.04	37	<3	<5	**8**	<2	5	<5	<3	136
UNKNOWN	0.1	0.62	18	<3	27	<3	0.01	0.3	5	39	41	3.04	0.11	0.08	96	4	0.01	27	0.03	37	<3	<5	<2	<2	5	<5	<3	62
DBS015-04A	**>50.0**	0.88	18	<3	60	17	0.01	**34.4**	**142**	26	**213**	8.39	0.33	0.04	**5835**	5	0.03	**185**	0.02	54	<3	<5	**24**	<2	8	<5	**309**	**503**
Minimum Detection	0.1	0.01	3	3	1	3	0.01	0.1	1	1	1	0.01	0.01	0.01	1	1	0.01	1	0.01	2	3	5	2	2	1	5	3	1
Maximum Detection	50.0	10.00	2000	100	1000	1000	10.00	1000.0	20000	1000	20000	10.00	10.00	10.00	20000	1000	10.00	20000	10.00	20000	100	100	2000	1000	10000	100	1000	20000

< = Less than Minimum is = Insufficient Sample ns = No sample > = Greater than Maximum AuFA = Fire assay/AAS

APPENDIX 2 - *Overburden Sample Assay Results (high silver value confirmation)*

VGC VANGEOCHEM LAB LIMITED

MAIN OFFICE
1988 TRIUMPH ST.
VANCOUVER, B.C. V5L 1K5
• (604) 251-5656
• FAX (604) 254-5717

BRANCH OFFICES
PASADENA, NFLD.
BATHURST, N.B.
MISSISSAUGA, ONT.
RENO, NEVADA, U.S.A.

SAMPLE #	Ag oz/st
OBS005-04A	1.16
OBS005-06A	2.53
OBS008-01A	1.27
OBS009-09A	.46
OBS009-12A	.42
OBS014-04A	1.21
OBS020-01A	.69
OBS035-05A	2.07
OBS035-06A	4.09
OBS036-09A	1.29
OBS037-06A	4.85
OBS038-01A	1.67
OBS039-02A	6.14
OBS039-06A	1.24
OBS015-04A	1.93
DETECTION LIMIT	.01

1 Troy oz/short ton = 34.28 ppm   1 ppm = 0.0001%   ppm = parts per million   < = less than

signed: [signature]

APPENDIX NO.3 - DRILL CORE LOGS

DDH 88-01
Location: see figure 2.9
Azimuth: 070 °
Dip: 45°
Length: 84.4 meters

Interval(m)	Description
0 - 2.4	casing -vuggy, angular white quartz fragments with abundant limonitic stain
2.4-7.9	Phyllite, dark grey to black, very fissile; foliation to core axis @ 60 - 70°; extensive limonitic stain on foliation and fracture surfaces (weathered, oxidized) -narrow zones of brecciation occur at: 3.4-3.7; 6.7-7.0; 7.6-8.1; brecciated sections contain limonite stained white quartz, wall rock fragments flaky graphite (graphite slicks) is developed and foliation is distorted
7.9-16.2	Pyroclastic metavolcanic/metagreywacke, grey with with 0.1 - 0.2 cm. chloritized fragments (volcanic glass?); indistinct foliation, blocky fracture; occassional sub-concordant chlorite stringers (1 to 5 cm. wide)
16.2-19.2	Metagreywacke, increasing graphitic appearance from preceding; brecciation and distorted foliation at 18.6m.
19.2-20.7	Breccia Zone; flaky graphite and chloritization along slip planes at 20 ° to core axis; white quartz with limonitic stain in along fracture surfaces; no visible sulfides due to weathering
20.7-30.6	Phyllite, dark grey to black, fissile; contains minor amounts of fine, disseminated pyrite; gradational unit to Metagreywacke
30.6-33.2	Phyllite, dark grey to black, weakly foliated (possible Metagreywacke); contains approx. 25-35% subhedral pale coloured silicate phenocrysts/fragments?; fragments may be fresh version of chloritized grains observed from 7.9-16.2 meters; foliation to core axis angle changes to 20 °
33.2-46.0	Phyllite, dark grey to black; foliation to core axis angle at 70°; note brecciation and quartz mineralization at: 34.4 - 5 cm wide subconcordant quartz lens with limonite along fracture surfaces 39.6 - 10 cm wide breccia zone perpendicular to core axis; note: flaky graphite and quartz stringers along shear surfaces 43.0 - 5 cm wide subconcordant quartz lens 44.2-45.4 - deformation zone: note distorted foliation; deformation occurs at gradational contact to Metagreywacke -quartz mineralization associated with minor subhedral siderite (along wallrock contacts or as clusters within the quartz; abundant limonitic staining
46.0-46.3	Gradational contact from Phyllite to Metagreywacke; foliation to core axis at 45°
46.3-47.2	Metagreywacke, dark grey, weakly foliated; gradational contact to Phyllite
47.2-49.1	Phyllite; brecciated, common quartz-siderite stringers at 20 / 60 ° to core axis
49.1-59.1	Phyllite, dark grey, moderately fissile; concordant pyrite rich lenses (0.5 to 2.5 cm. wide) at 51.2, 52.0 meters; lens at 52.0 shows intensely distorted foliation ie: 10 to 70 ° to core axis; brecciation and limonite stained quartz at: 57.5 - 10 cm. wide concordant quartz lens; with cjhlorite, pyrite alteration along wall rock contact 60.0 - 15 cm. wide condordant quartz lens; contains minor euhedral siderite clusters
59.1-84.4	Phyllite; dark grey to black; foliation to core axis at 50 °; Box no.s 9, 10, 11 overturned during transport; core log approximate only

DDH 88-02A
Location: see figure 2.9
Azimuth: 120 °
Dip: 60 °
Length: 42.4 meters

Interval	Description
0.0-11.3	casing
11.3-16.6	Phyllite, dark grey to black; weathered, abundant limonite on foliation/fracture surfaces; fissile
16.6-16.9	Phyllite, dark grey to black, very fissile, extensive weathering; foliation to core axis at 70 °
16.9-17.3	Breccia Zone; white, limonite stained quartz containing approx 20% angular, wall rock fragments at upper contact; distorted foliation, graphite slicks at lower contact
17.3-18.0	Phyllite, black, graphitic; approx 3-5% pyrite as subconcordant lenses and disseminated grains; very fine grained phyllite
18.0-18.9	Breccia zone / deformed zone: Phyllite, dark grey to black; foliation distorted; silicification along foliation planes, sub-common concordant quartz stringers up to 5 cm. wide
18.9-19.7	Phyllite, moderately deformed, contains 0.3 meter interval similar to silicified parts of section 18.0-18.9
19.7-42.4	Phyllite, dark grey to black; foliatioin to core axis at 75 °; contains several narrow quartz lenses as follows: 23.8 - 5 cm. wide irregular quartz stringer 26.8-27.1 - zone contains common 0.2-0.5 cm. wide concordant quartz stringers
42.4	Phyllite, dark grey to black
42.4	end of hole

DDH 88-02B
Location: see figure 2.9
Azimuth: 120 °
Dip: 45 °
Length: 54.9 meters

Interval	Description
0.0-10.9	casing
10.9-14.6	Phyllite, dark grey to black, weathered, fissile, limonitic stain on foliation surfaces
14.6-15.7	gradational contact to Metagreywacke; units interbedded; greywacke at base of interval; brecciated zones occur at:
15.7-16.0	Phyllite, dark grey to black, weathered, fissile, limonitic stain on foliation surfaces
16.0-16.1	shear at 30 ° to core axis; graphite slicks
16.1-16.6	brecciated zone, distorted foliation; approx. 0.6 meters lost core; white, limonite stained quartz zone containing approx. 10% vugs; secondary crystal growth in vugs; approx 20% angular wall rock fragments in quartz near top of interval
16.6-17.0	Phyllite, dark grey to black, fissile; foliation distorted; selective silicification along foliation planes; some horizons almost completely replaced byb quartz, abundant concordant quartz stringers (0.5 to 1.0 cm. wide); fracturing healed with quartz at 20 and 70 ° to core axis
17.0-20.7	Phyllite; less diformed than preceding interval but shows some silicification
20.7-27.3	Phyllite, dark grey to black, very fissile, weathered

DDH 88-02B cont'd
Location: see figure 2.9
Azimuth: 120 °
Dip: 45 °
Length: 54.9 meters

Interval(meters)	*Description*
27.3-27.5	concordant quartz lens, nil limonite, barren looking
27.5-41.2	Phyllite, dark grey to black, less well foliated than preceding unit; pyrite rich band (2.0 cm wide) marks distorted foliation at 35.2 meters
41.2-41.7	Phyllite, dark grey; abundant quartz-pyrite stringers (subconcordant); poor core recovery 49.1-49.8, 53.3-54.3 meters
54.9	end of hole

DDH 88-03
Location: see figure 2.9
Azimuth: 130°
Dip: 45 °
Length: 69.2 meters

Interval	*Description*
0-5.8	casing
5.8-6.4	Phyllite / Metagreywacke contact; weathered, abundant limonitic stain on foliation surfaces
6.4-9.5	Metagreywacke / Pyroclastic Metavolcanic?; grey coloured; foliation to core axis at 20°; brecciation and disrupted foliation at 7.5, 9.1; foliation disrupted at base of interval
9.5-11.6	Phyllite, dark grey to black; fissile, weathered - limonitic stain on fracture surfaces
11.6-12.7	lost core
12.7-27.3	Phyllite, dark grey to black, fissile; foliation to core axis at 20 °; brecciated zones as follows: 25.8-26.0 - 10 cm wide quartz stringer at 75 ° to core axis -note: pitting along foliation planes - pyrite weathered out? 27.3 - subconcordant quartz stringer, limonitic stain on fracture surfaces
27.5-39.0	Phyllite, dark grey to black, weathered, fissile, rare sub-concordant quartz stringers
39.0-45.1	Phylite, fractured, poor core recovery throughout zone, abundant limonite on foliation surfaces; breccia zone, deformed foliation and 10 cm. wide quartz lens at 44.8 meters
45.1-47.2	gradational contact to med. grey Metagreywacke/ Pyroclastic Metagreywacke; interbedded Phyllite and Metagreywacke beds
47.2-49.1	gradational contact to dark grey to black Phyllite
49.1-69.2	Phyllite/Metagreywacke, indistinct foliation, not fissile, foliation defined by allignment of 0.1-0.3 cm sized, cream coloured fragments?;
69.2	end of hole

DDH 88-04
Location: see figure 2.9
Azimuth: 175 °
Dip: 45 °
Length: 88.4 meters

Interval	Description
0.0-8.8	casing
8.8-22.9	Phyllite, dark grey to black; moderately fissile; foliation to core axis at 30 °; weathered, brecciation and white quartz developed at: 14.9-15.6 - silicification along distorted foliation planes, graphite slicks in places at right angles to core axis 16.2-16.4 - 15 cm wide white quartz, sub-concordant, limonitic stain on fracture surfaces, minor siderite 18.0-18.2 - brecciated Phyllite, approx. 30% of section consists of white quartz, foliation distorted ie. 20 to 80 ° to core axis
22.9-32.0	Phyllite, dark grey to black, fissile, increasing graphite content from preceding unit
32.0-36.6	Phyllite, dark grey to black, fissile, foliation to core axis at 30 °; brecciation as follows: 24.1 - 2 cm wide pyrite rich lens marks distorted foliation 25.3-25.7 - 10 cm wide quartz zone, white, limonitic stain on fracture surfaces
36.6-88.4	Phyllite, dark grey to black, fissile, weathered; occassional narrow quartz lenses and zones of distorted foliation with silicification
88.4	end of hole

DDH 88-05
Location: see figure 2.9
Azimuth: 120 °
Dip: 45 °
Length: 93.6 meters

Interval	Description
0.0-6.2	casing
6.2-93.6	Phyllite, dark grey to black, fissile; interbedded with med. grey Metagreywacke; foliation to core axis @ 20 °; occassional sub concordant quartz lenses; no significant breccia zone or quartz intercept
93.6	end of hole (Note: preliminary log only)

DDH 88-06A
Location: see figure 2.9
Azimuth: 170 °
Dip: 45 °
Length: 73.2 meters

Interval	Description
0.0-7.1	casing
7.1-73.2	Phyllite, dark grey to black, fissile; interbedded with med. grey Metagreywacke; foliation to core axis @ 20-30 °; occassional sub concordant quartz lenses; no significant breccia zone or quartz intercept
73.2	end of hole (Note: preliminary log only)

DDH 88-06B
Location: see figure 2.9
Azimuth: 170 °
Dip: 60 °
Length: 82.3 meters

Interval	Description
0.0-7.8	casing
7.8-82.3	Phyllite, dark grey to black, fissile; interbedded with med. grey Metagreywacke; foliation to core axis @ 20-30 °; occassional sub concordant quartz lenses; no significant breccia zone or quartz intercept
82.3	end of hole (Note: preliminary log only)

DDH 88-07A
Location: see figure 2.9
Azimuth: 160 °
Dip: 60 °
Length: 83.2 meters

Interval	Description
0.0-10.1	casing
10.1-15.9	Metagreywacke, med. grey, foliation variable from 10 to 80 ° to core axis; fracturing (0.5 to 2.5 cm wide) healed by quartz perpendicular to foliation at: 10.3, 11.3, 12.2, 13.6 meters; narrow quartz filled fractures at 20 ° to core axis at: 11.4, 12.4, 13.7 meters -quartz contains minor siderite along wall rock contacts and as subhedral clusters; limonite stain along fracture surfaces -gradational contact to Phyllite at base of interval
15.9-34.1	Phyllite; dark grey to black, fissile, weatherd; distorted foliation and limonitic stain at 23.4 meters; brecciation filled with white quartz at 30.5-30.9 meters
34.1-36.3	interbeded Phyllite and Metagreywacke; pyrite rich lens marks distorted foliation at 34.4
36.3-38.4	Metagreywacke, med. grey; foliation at 30 ° to core axis
38.4-40.8	interbedded Metagreywacke and Phyllite
40.8-41.4	Metagreywacke, med. grey; approx. 40% chloritized, cream coloured fragments? pyroclastic volcanic?
41.4-47.9	interbedded grey and dark grey to black Phyllite; brecciated, weathered zone at 43.2 meters; transitional contact to Metagreywacke at base of interval
47.9-57.0	interbedded grey and dark grey to black Phyllite; concordant quartz lens at 48.8; brecciated, weathered zone at 51.8 meters; transitional contact to Metagreywacke at base of interval
57.0-64.3	interbeded dark grey Phyllite and med. grey Metagreywacke; 10 cm wide brecciated zone at 58.8 meters contains subconcordant white quartz, limonitic staining; similar breccia zone at 59.9 meters
64.3	contact to dark grey to black Phyllite
64.3-83.2	Phyllite, dark grey to black, graphitic; foliation at 30 ° to core axis; brecciated intervals as follows: 69.2-69.7 - subconcordant white quartz lens, graphite slicks, 1-2% vugs 70.4-71.0 - subconcordant quartz lens 76.5-76.8 - quartz lens, limonite stained 79.3-79.9 - distorted foliation, silicification along bedding planes; weathered 80.8-81.6 - subconcordant quartz lenses between shear contacts; foliation distorted
83.2	end of hole

DDH 88-07B
Location: see figure 2.9
Azimuth: 160 °
Dip: 45 °
Length: 63.1 meters

Interval	*Description*
0.0-9.4	casing
9.4-13.1	Metagreywacke, med. grey, foliation defined by allignment of of 0.1-0.2 cm sized, cream coloured (weathered to chlorite) fragments?
13.1-18.3	interbedded Metagreywacke and Phyllite, med. grey to dark grey, Phyllite unit fissile, weathered; foliation to core axis at 50 to 70 ° to core axis
18.3-20.7	Metagreywacke, med. grey, similar to interval 9.4-13.1 meters
20.7-25.3	interbedded Metagreywacke and dark grey Phyllite
25.3-25.8	Phyllite, distorted foliation ie: variable from 10 to 70 ° to core axis
25.8-31.4	Metagreywacke, med. grey, well foliated; lower contact gradational to Phyllite, dark grey to black; brecciation, distorted foliation; 10 cm wide quartz lens, subconcordant; graphite slicks along fracture surfaces; quartz limonite stained
31.4-31.7	gradational contact to Metagreywacke
31.7-39.4	interbedded black and dark grey Phyllite, black phyllite fissile, high graphite content; brecciated zone, distorted foliation occur at 38.3-38.8
39.4-40.8	interbedded black and dark grey Phyllite, black phyllite fissile; distorted foliation at 39.3 defined by 1 cm wide pyrite lens
40.8-48.2	interbedded black and dark grey Phyllite; brecciation, distorted foliation and limonite stained white quartz at 42.8, 43.3-43.7, 45.6, and 47.6 meters
48.2-50.1	Metagreywacke, med. grey, foliation to core axis at 10 to 30 °
50.1-51.5	interbedded dark grey to black Phyllite; foliation distorted at contact to 20 cm wide quartz lens; disc. contact at 20 ° to core axis
51.5-60.1	interbedded dark grey to black Phyllite
60.1-63.1	interbedded dark grey to black Phyllite; foliation distorted at contact to 10 cm wide, sub-concordant quartz lens
63.1	end of hole

DDH 88-08A
Location: see figure 2.9
Azimuth: 175 °
Dip: 60 °
Length: 96.6 meters

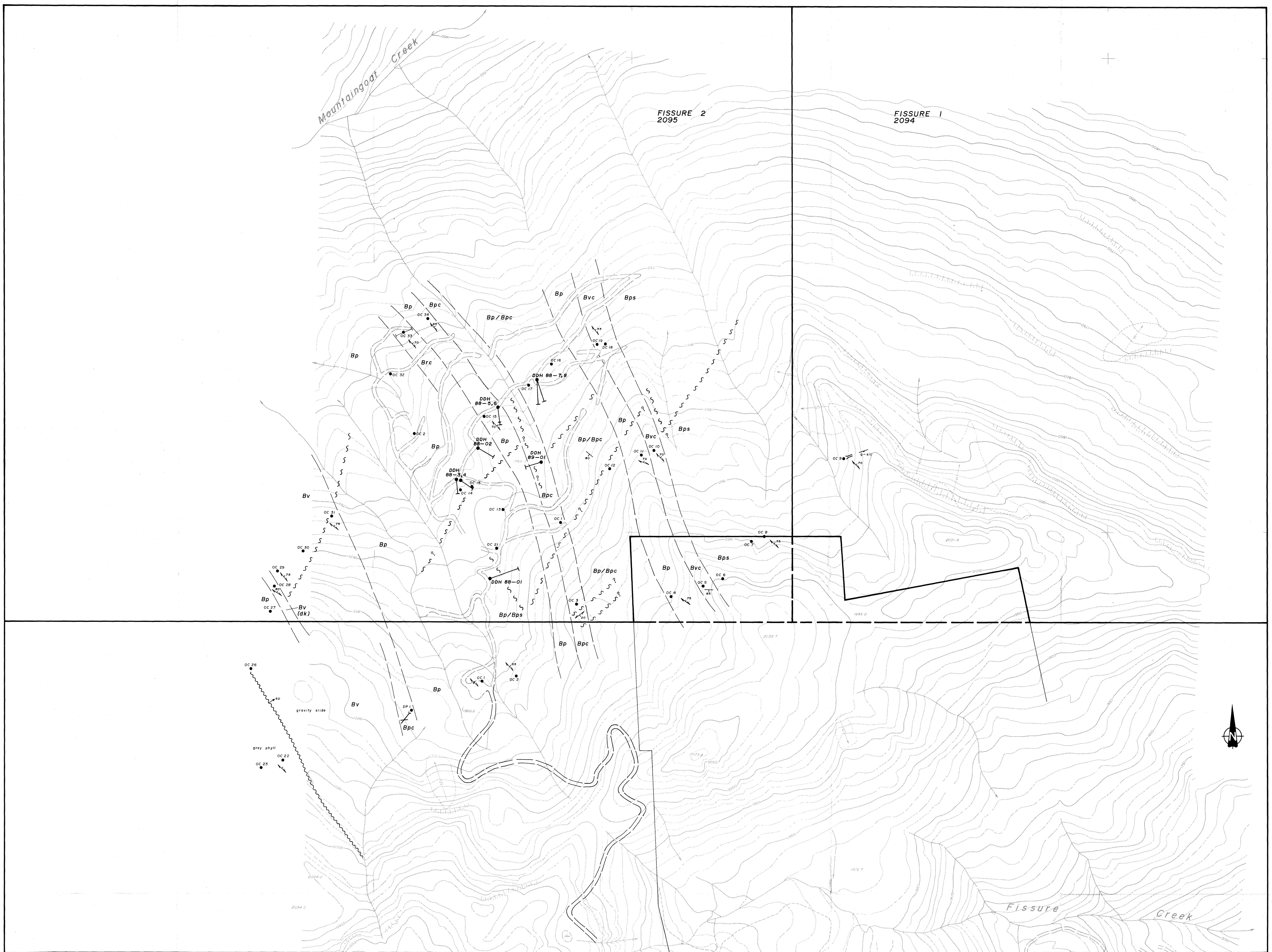
Interval	*Description*
0.0-2.7	casing
2.7-20.4	med. grey Metagreywacke; section is extremely blocky; less than 10% core recovery
20.4-96.6	interbedded grey to black and med. grey phyllite; no significant quartz or breccia zone intercepts
96.6	end of hole (preliminary log only)

DDH 88-08B
Location: see figure 2.9
Azimuth: 175 °
Dip: 45 °
Length: 61.0 meters

Interval	Description
0.0-2.2	casing
2.2-61.0	interbedded dark grey to black Phyllite and med. grey Metagreywacke; no significant breccia zone or quartz interval intersected; poor core recovery (less than 25%)
61.0	end of hole (Note: preliminary log only)

DDH 89-01
Location: see figure 2.9
Azimuth: 250 °
Dip: 45 °
Length: 91.4 meters

Interval	Description
0.0-9.8	casing
9.8-12.9	section very weathered, poor core recovery (less than 20%); section predominantly Metagreywacke; occassional quartz fragments
12.9-21.9	section very weathered, poor core recovery; med. grey Metagreywacke; very deformed foliation ie: 10 $^{to\ 70°}$ to core axis; occassional crosscutting and subconcordant quartz stringers (1.0-3.0 cm wide)
21.9-26.7	poor core recovery; med. grey to dark grey (increasing graphite content) Phyllite (transitional from Metagreywacke); approx. 10% crosscutting quartz stringers containing minor amount of cream coloured weathered out clays?, siderite; irregular contact to quartz lens at base of interval
26.7-27.2	white quartz; minor limonitic stain; contains 2-3% vugs which show secondary quartz crystal growth; rare graphite partings perpendicular to core axis
27.2-29.9	very poor core recovery; mixed quartz and Phyllite to Metagreywacke fragments; where observed foliation shows extensive deformation (crenulated)
29.9-30.2	Metagreywacke, med. grey to dark grey; quartz stringers and limonitic stain sub parallel core axis; base of section shows flaky graphite in contact with white quartz
30.2-32.6	white Quartz; contains 2-5% vugs; some limonitic stain on fracture surfaces; clay weathering products along graphite slicks (graphite slicks abundant at top of section) 30.0-30.7 - brecciated Metagreywacke in quartz; sub angular wall rock fragments;
32.6-34.1	very poor core recovery (less than 20%); fractured, med. grey Metagreywacke
34.1-91.4	very poor core recovery (less than 20%), fractured, med. grey Metagreywacke; occassional Phyllite interbeds; no significant breccia zone or quartz intercept (Note: preliminary log only)
91.4	end of hole



LEGEND

Bp Phyllite, grey, finely laminated and fissile often with very fine grained metasiltstone interbeds, soft to moderately hard

Bps Phyllite, grey, siliceous; common quartz and quartz - carbonate lenses and intercalations; often interbedded with phyllitic metagrit

Bvc Pyroclastic metavolcanic, metagreywacke, light grey, fine to coarse xenoliths and fragments of volcanic glass, finely laminated and banded; usually interbedded with fine to coase phyllitic metagrit

Bpc Phyllite, dark grey to black, carbonaceous to graphitic; usually very fissile and soft

Bv Phyllite, dark to light grey to green grey, feldspathic intercalations and laminae, generally dense, foliated to blocky

GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,181

50 25 0 50 100 150 200 250
Meters

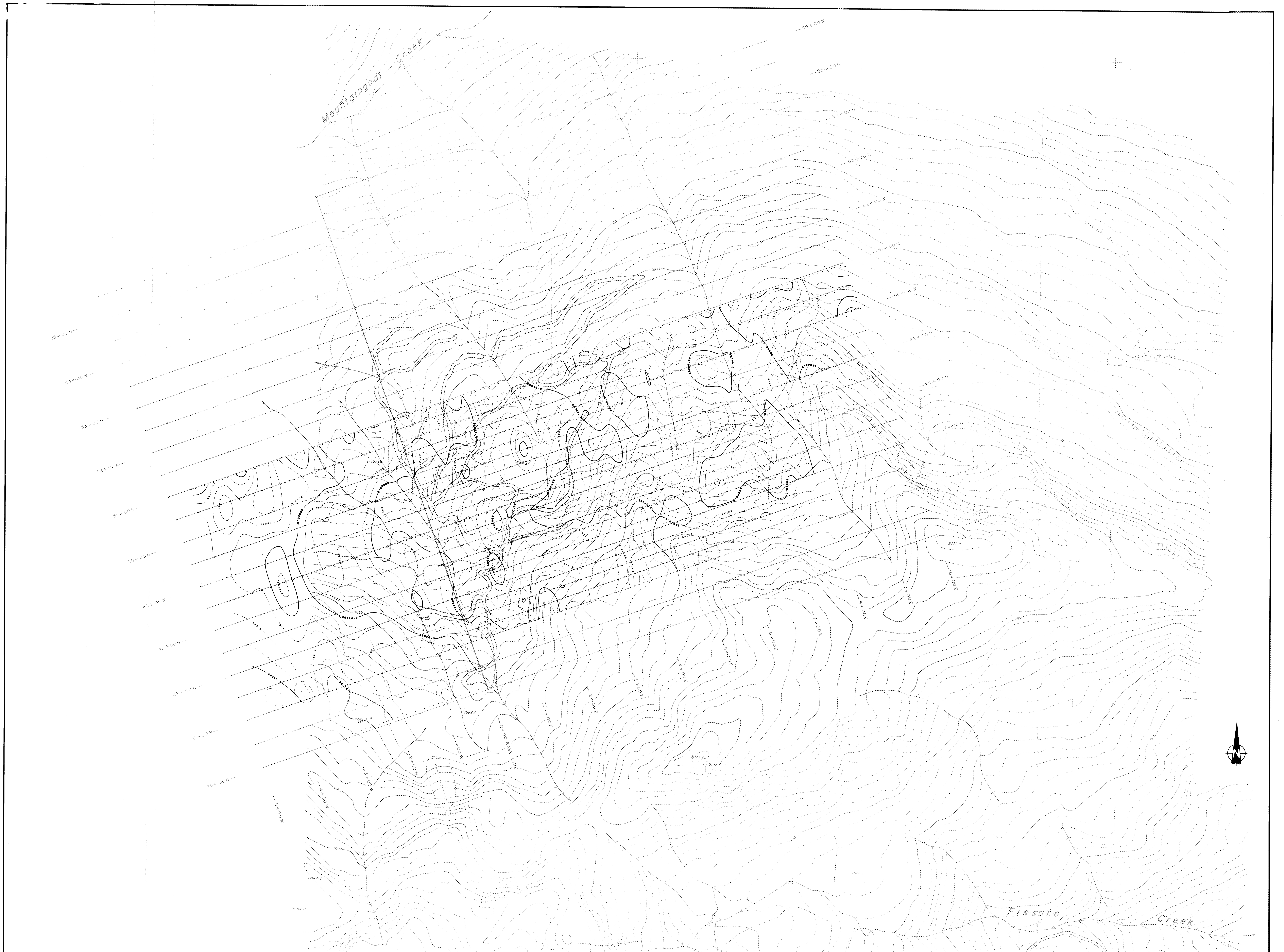
NOTE: Contour Interval 10 Meters

HALLEY RESOURCES LTD.
— FISSURE CLAIM GROUP —
REVELSTOKE MINING DIVISION — BRITISH COLUMBIA

FISSURE GRID

GEOLOGICAL MAP SHOWING LOCATION OF DIAMOND DRILL HOLES

RAM EXPLORATIONS LTD. VANCOUVER, B.C.	DWN. BY: T.M.	FIG. No.
	CHK. BY:	29
	DATE: OCT., 1989	



GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,181

50 25 0 50 100 150 200
Meters

HALLEY RESOURCES LTD.
— FISHER CLAIM GROUP
REVELSTOKE MINING DIVISION — BRITISH COLUMBIA

MAGNETOMETER SURVEY PLAN
Contour Interval 2.5 gammas

Figure No.2.8 Scale: 1:2,500

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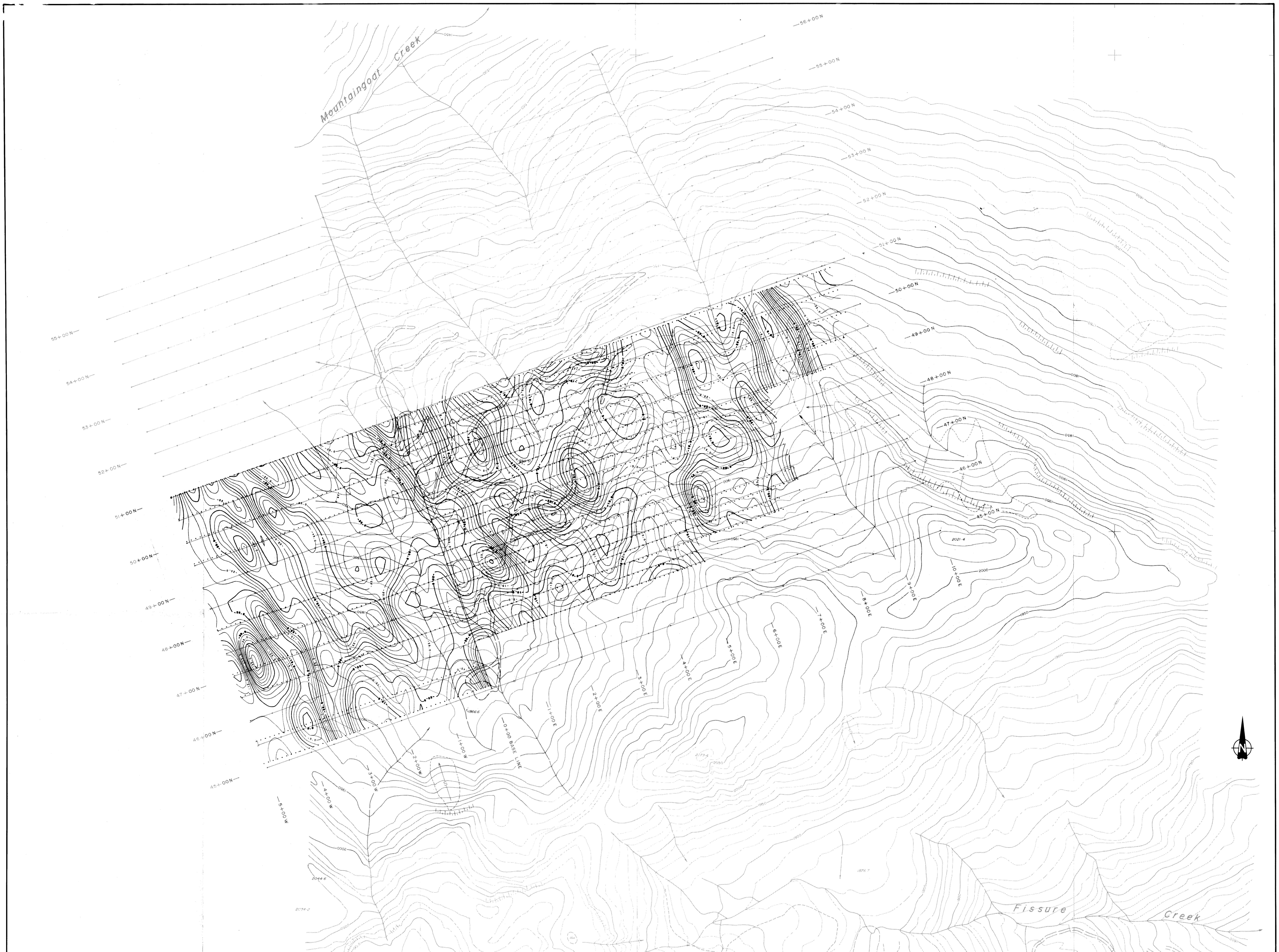

GEOLOGICAL BRANCH ASSESSMENT REPORT

19,181

50 25 0 50 100 150 200 Meters

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— FISHER CLAIM GROUP

REVELSTOKE MINING DIVISION — BRITISH COLUMBIA

FISSURE GRID

VLF-EM VERTICAL IN-PHASE CONTOUR MAP
Contour Interval 2.5%, Annappolis Transmitting Station

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21

GEOLOGICAL BRANCH ASSESSMENT REPORT

19,181

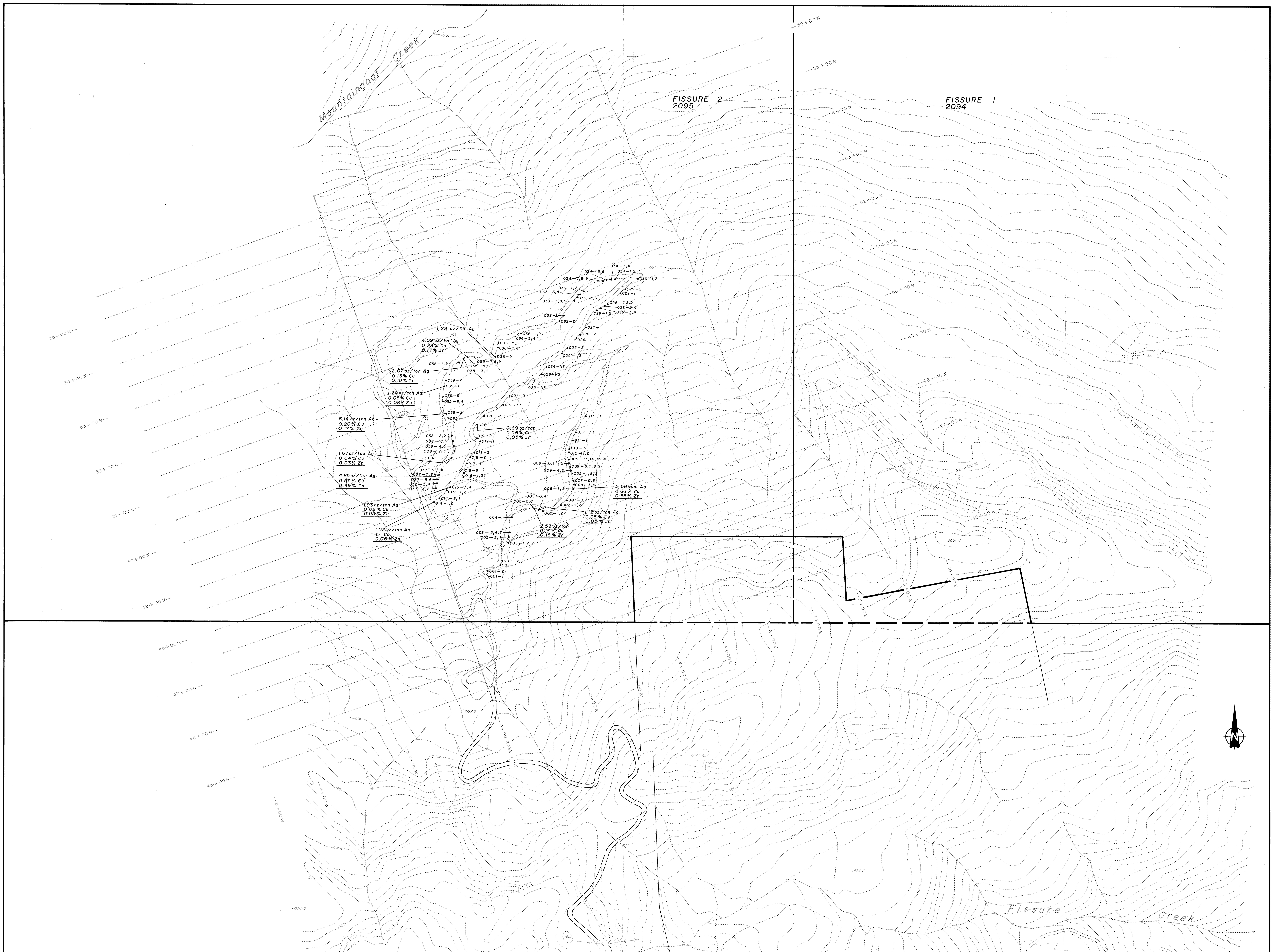
50 25 0 50 100 150 200
Meters

HALLEY RESOURCES LTD.
— FISHER CLAIM GROUP
REVELSTOKE MINING DIVISION — BRITISH COLUMBIA

VLF-EM VERTICAL IN-PHASE CONTOUR MAP
Contour Interval 2.5%, Seattle Transmitting Station

Figure No.2.6 Scale: 1:2,500

RAM EXPLORATIONS LTD.
VANCOUVER, B.C.



GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,181

50 25 0 50 100 150 200 250
Meters

NOTE: Contour Interval 10 Meters

HALLEY RESOURCES LTD.

— FISSURE CLAIM GROUP —

REVELSTOKE MINING DIVISION — BRITISH COLUMBIA

FISSURE GRID

OVERBURDEN DRILL SITE LOCATION MAP

RAM EXPLORATIONS LTD.	DWN. BY: T.M.	FIG. No.
VANCOUVER, B.C.	CHK. BY:	25
	DATE: OCT., 1989	