

**1996 ASSESSMENT REPORT**

**MAGNETOMETER \ VLF-EM &  
GEOCHEMISTRY SURVEYS**

on the

**Jenny 1-36, Johnny 1-21, Jimmy 1-8, Natalie 1-33,  
April 1-30, Jules 1-12, & Gerald 1-38 Claims**  
(BUFFALO GRID, NISLING GRID & KLAZA GRIDS)

Latitude 62°00' North  
Longitude 137°15' West

Whitehorse, Mining District,

N.T.S 115 13, H/14

for

**B.Y.G. NATURAL RESOURCES INC.**

110 Industrial Road  
Whitehorse, Yukon  
Y1A 2T1 Canada

Survey by

**SJ GEOPHYSICS LTD.**

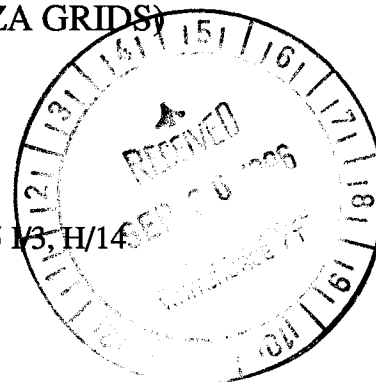
11762 - 94<sup>th</sup> Avenue  
Delta, British Columbia  
Canada V4C 3R7

Report by

H. Eric Ewen  
BYG Natural Resources Inc.

Syd Visser, P. Geo  
S.J.V. Consultants Ltd.

April 5, 1996 to June 29, 1996



**0935 43**

This report has been examined by  
the Geological Evaluation Unit  
under Section 53 (4) Yukon Quartz  
Mining Act and is allowed as  
representation work in the amount  
of \$ 50,000.

*M. Burke*  
for Regional Manager, Exploration and  
Geological Services for Commissioner  
of Yukon Territory.

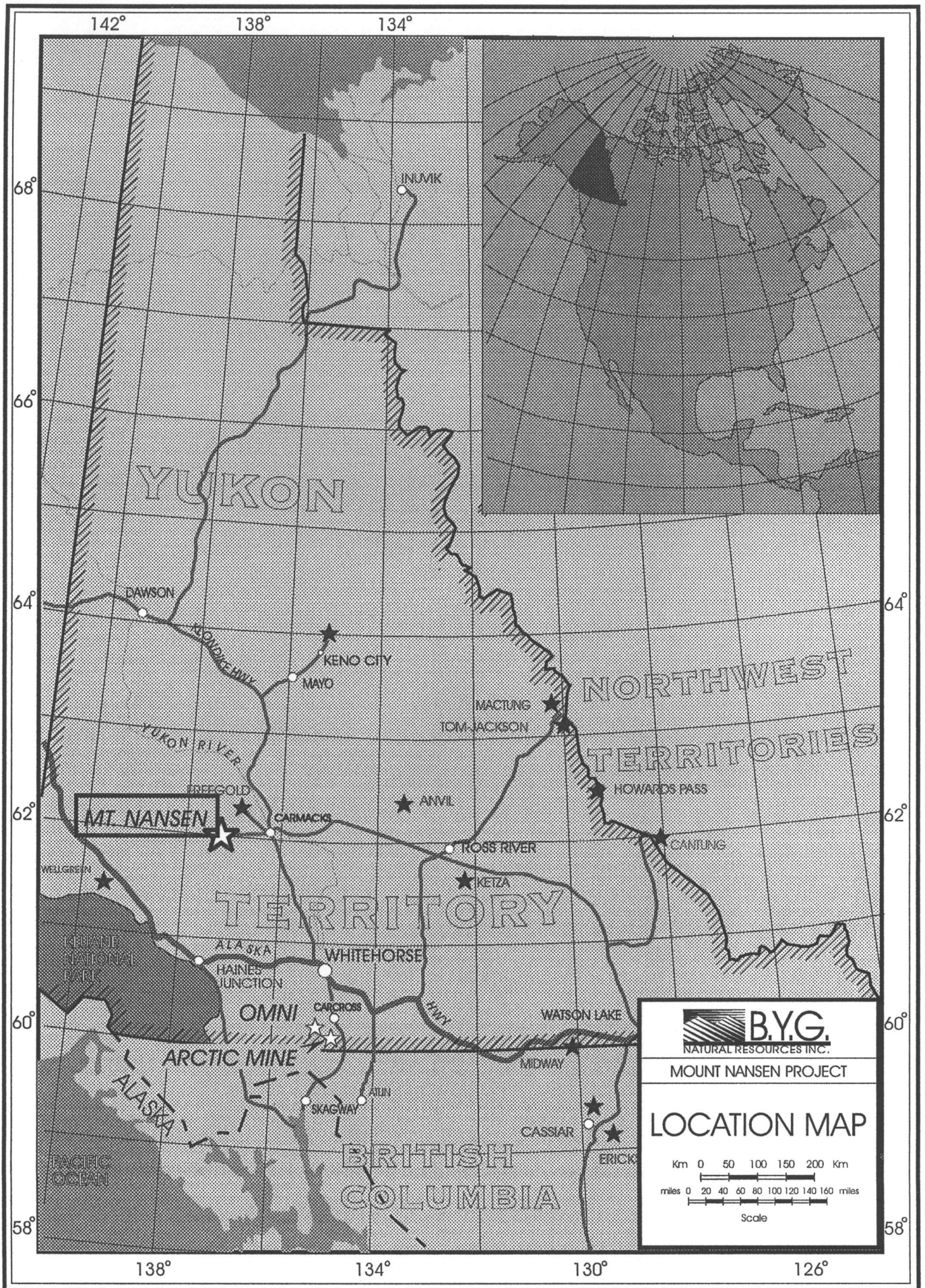


Figure 1: Location Map

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**LIST OF CLAIMS AND TAG NUMBERS**

<b>CLAIM NAME</b>		<b>TAG NUMBER</b>	<b>CLAIM NAME</b>		<b>TAG NUMBER</b>
JENNY	1	YB57727	JOHNNY	6	YB57768
JENNY	2	YB57728	JOHNNY	7	YB57769
JENNY	3	YB57729	JOHNNY	8	YB57770
JENNY	4	YB57730	JOHNNY	9	YB57771
JENNY	5	YB57731	JOHNNY	10	YB57772
JENNY	6	YB57732	JOHNNY	11	YB57773
JENNY	7	YB57733	JOHNNY	12	YB57774
JENNY	8	YB57734	JOHNNY	13	YB57775
JENNY	9	YB57735	JOHNNY	14	YB57776
JENNY	10	YB57736	JOHNNY	15	YB57777
JENNY	11	YB57737	JOHNNY	16	YB57778
JENNY	12	YB57738	JOHNNY	17	YB57779
JENNY	13	YB57739	JOHNNY	18	YB57780
JENNY	14	YB57740	JOHNNY	19	YB57781
JENNY	15	YB57741	JOHNNY	20	YB57782
JENNY	16	YB57742	JOHNNY	21	YB57783
JENNY	17	YB57743	JIMMY	1	YB57784
JENNY	18	YB57744	JIMMY	2	YB57785
JENNY	19	YB57745	JIMMY	3	YB57786
JENNY	20	YB57746	JIMMY	4	YB57787
JENNY	21	YB57747	JIMMY	5	YB57788
JENNY	22	YB57748	JIMMY	6	YB57789
JENNY	23	YB57749	JIMMY	7	YB57790
JENNY	24	YB57750	JIMMY	8	YB57791
JENNY	25	YB57751	NATALIE	1	YB57792
JENNY	26	YB57752	NATALIE	2	YB57793
JENNY	27	YB57753	NATALIE	3	YB57794
JENNY	28	YB57754	NATALIE	4	YB57795
JENNY	29	YB57755	NATALIE	5	YB57796
JENNY	30	YB57756	NATALIE	6	YB57797
JENNY	31	YB57757	NATALIE	7	YB57798
JENNY	32	YB57758	NATALIE	8	YB57799
JENNY	33	YB57759	NATALIE	9	YB57800
JENNY	34	YB57760	NATALIE	10	YB57801
JENNY	35	YB57761	NATALIE	11	YB57802
JENNY	36	YB57762	NATALIE	12	YB57803
JOHNNY	1	YB57763	NATALIE	13	YB57804
JOHNNY	2	YB57764	NATALIE	14	YB57805
JOHNNY	3	YB57765	NATALIE	15	YB57806
JOHNNY	4	YB57766	NATALIE	16	YB57807
JOHNNY	5	YB57767	NATALIE	17	YB57808

*Mt. Nansen Property, Magnetometer & VLF-EM Survey, 1996*

<b>CLAIM NAME</b>		<b>TAG NUMBER</b>	<b>CLAIM NAME</b>		<b>TAG NUMBER</b>
NATALIE	18	YB57809	APRIL	28	YB57852
NATALIE	19	YB57810	APRIL	29	YB57853
NATALIE	20	YB57811	APRIL	30	YB57854
NATALIE	21	YB57812	GERALD	1	YB57855
NATALIE	22	YB57813	GERALD	2	YB57856
NATALIE	23	YB57814	GERALD	3	YB57857
NATALIE	24	YB57815	GERALD	4	YB57858
NATALIE	25	YB57816	GERALD	5	YB57859
NATALIE	26	YB57817	GERALD	6	YB57860
NATALIE	27	YB57818	GERALD	7	YB57861
NATALIE	28	YB57819	GERALD	8	YB57862
NATALIE	29	YB57820	GERALD	9	YB57863
NATALIE	30	YB57821	GERALD	10	YB57864
NATALIE	31	YB57822	GERALD	11	YB57865
NATALIE	32	YB57823	GERALD	12	YB57866
NATALIE	33	YB57824	GERALD	13	YB57867
APRIL	1	YB57825	GERALD	14	YB57868
APRIL	2	YB57826	GERALD	15	YB57869
APRIL	3	YB57827	GERALD	16	YB57870
APRIL	4	YB57828	GERALD	17	YB57871
APRIL	5	YB57829	GERALD	18	YB57872
APRIL	6	YB57830	GERALD	19	YB57873
APRIL	7	YB57831	GERALD	20	YB57874
APRIL	8	YB57832	GERALD	21	YB57875
APRIL	9	YB57833	GERALD	22	YB57876
APRIL	10	YB57834	GERALD	23	YB57877
APRIL	11	YB57835	GERALD	24	YB57878
APRIL	12	YB57836	GERALD	25	YB57879
APRIL	13	YB57837	GERALD	26	YB57880
APRIL	14	YB57838	GERALD	27	YB57881
APRIL	15	YB57839	GERALD	28	YB57882
APRIL	16	YB57840	GERALD	29	YB57883
APRIL	17	YB57841	GERALD	30	YB57884
APRIL	18	YB57842	GERALD	31	YB57885
APRIL	19	YB57843	GERALD	32	YB57886
APRIL	20	YB57844	GERALD	33	YB57887
APRIL	21	YB57845	GERALD	34	YB57888
APRIL	22	YB57846	GERALD	35	YB57889
APRIL	23	YB57847	GERALD	36	YB57890
APRIL	24	YB57848	GERALD	37	YB57891
APRIL	25	YB57849	GERALD	38	YB57892
APRIL	26	YB57850			
APRIL	27	YB57851			

*Mt. Nansen Property, Magnetometer & VLF-EM Survey, 1996*

<b>CLAIM NAME</b>		<b>TAG NUMBER</b>	<b>CLAIM NAME</b>	<b>TAG NUMBER</b>
JULES	1	YB57893		
JULES	2	YB57894		
JULES	3	YB57895		
JULES	4	YB57896		
JULES	5	YB57897		
JULES	6	YB57898		
JULES	7	YB57899		
JULES	8	YB57900		
JULES	9	YB57901		
JULES	10	YB57902		
JULES	11	YB57903		
JULES	12	YB57904		

## **INTRODUCTION**

In 1995 the Jenny, April, Johnny, Jimmy and Natalie claims were stacked to cover possible southern extensions of the mineralization of the Mt Nansen deposits. It was hoped that the trend that the mineralization seemed to follow would extend in this direction.

Two grids were located over these claims, the Buffalo Grid and the Nisling Lake Grid. On these grids Magnetometer and VLF Electromagnetic surveys were conducted. The expectation was that these surveys would assist in lithological and structural geologic mapping and that EM conductors identified may reflect the same mineralized shears as at Mt. Nansen. These more favourable conductors would then be followed up with intensive prospecting, geological mapping, soil geochemistry and if results proved favourable, trenching, and possibly drilling.

Reports of the geophysics conducted over these two grids have been written and are included as addendum of this report as reports entitled, Magnetometer and VLF-EM Survey of the Buffalo Grid and Magnetometer and VLF-EM Survey of the Nisling Lake Grid.

The Jules and the Gerald Claims were staked to the north of known mineralization to cover possible extensions of the zones on the Tawa Claims. In the late summer of 1995 some reconnaissance prospecting and soil geochemistry indicated some potential targets. Three grids were placed over these claims called the Klaza 1, Klaza 2, and the Klaza 3 Grids.

Magnetometer and VLF-EM surveys were run over these three grids but unfortunately only the Klaza 1 grid was completed in time to be included in this report. The expectation of the geophysics was much the same as in the southern area. Additionally zones of shear mineralization of the Tawa Property that have been trenched and drilled show good VLF response. It was hoped that these could be extended on strike and that possibly more such zones could be found. Geophysical Anomalies would be

followed up with intensive prospecting, geological mapping, soil geochemistry, and if results favourable, trenching, and possibly drilling.

The results of the magnetometer, VLF-EM survey of the Klaza1 grid are reported in a separate report included as an addendum entitled Magnetometer and VLF-EM Survey of the Klaza 1 grid.

Klaza grids 2 & 3 were in different stages of completion at the time of this report. All of the Base Lines were completed, Grid 2 lines were all in and Grid 3 had a small soil geochemistry survey completed on it. The results of the soil survey are reported on in this report.

## **CLAIMS**

The claims (Plate 1), referred to as the Southern Claims, are located in the Whitehorse Mining District on Claim Maps 115 I/3 and 115 H/14 and are held by B.Y.G. Natural Resources Inc. Co-ordinates of the approximate centre of these claims are latitude 62°00' north and longitude 137°05' west.

Claims (Plate 2), referred to as the Northern Claims, are located in Whitehorse Mining District on Claim Map 115 I/3 and are held jointly by B.Y.G. Natural Resources Inc. and Trumpeter Yukon Gold Inc. Co-ordinates of the approximate centre of these claims are latitude 62°08' north and longitude 137°15' west.

Claim locations were surveyed with a Trimble GPS utilising a rented base station which produced an accuracy of less than 1 metre in eastings and northings and 2-5 metre accuracy in elevation.

## **CLAIMS LOCATION AND ACCESS**

The property can be reached by vehicle from Whitehorse by travelling north 180 km on Highway #2 to Carmacks and then 60 km west on a gravel access road to the B.Y.G. Mine Site. (See Figure 1) The Southern claims are accessed via a gravel road (approximately 10 kilometres) from the Mine Site to the south down the Nisling Valley. The Northern claims are accessed via a gravel road over the top of the Nansen Creek / Klaza River watershed into the Klaza Valley. This route is approximately 12 kilometres from the Mine Site. A tent camp was situated at the end of this road to better facilitate work being done on the Klaza Grids of the Northern Claims.

## **CLIMATE**

The area is quite dry, with average precipitation of about 25 cm, most of which falls as rain in the summer months. Late winter snow-pack is normally 30 to 40 cm deep. Average monthly temperatures range from -15°C in January to 15°C in July.

In general, outside activities such as construction can be conducted readily from April to early November.

## **HISTORY**

In 1943 prospectors Brown and McDade discovered lode deposit on Mount Nansen. Leitch Gold Mines forms Brown McDade Mines. Ltd.

In 1947 H. Heustis staked gold-silver veins on Mt. Nansen. Mt. Nansen Mines Ltd. carried out surface exploration between 1962 and 1964, and in 1965, underground exploration began.

Between 1965 and 1967 two adits were driven, one at the 1250 m level and one at the 1309 m level.

In 1968 and 1969 Heustis and Webber veins were mined at a rate of 65-90 tonnes per day. In 1969 without cyanide circuit 40% of the gold reports to the tailings ponds and production ceased.

In 1976 mill re-opened again with excellent grades from Heustis and mine operated for 10 months. Operations again suspended.

In 1984 B.Y.G. acquired the Mt. Nansen property and optioned to Chevron who conducted extensive exploration and discovered Brown-McDade oxide deposit.

In 1986 11 diamond drill holes totalling 576 m were completed. Seven holes encountered significant gold and silver values in the Flex vein zone.

In 1988 exploration consisted of road construction bulldozer and excavator trenching, stripping, rehabilitation of underground workings and 5397 m of diamond drilling in 85 holes. Most of the drilling was done on the Brown-McDade zone.

In 1994 12 diamond drill holes totalling 1000 m were completed in the Flex, Heustis North and Brown-McDade sulphide zones.

## **GENERAL GEOLOGY AND MINERALIZATION**

The Mt. Nansen is situated within the eastern part of the Yukon Crystalline Terrain, which lies between the Coast Plutonic Complex to the southwest and the Yukon Cataclastic Terrain to the northwest.

The southern portion of the property is underlain by deformed, medium to high grade metamorphic rocks. These include interlayered quartz-feldspar-chlorite gneiss, quartzite, amphibolite and augen gneiss. Foliation within these rocks strikes northeast and dips steeply to the northwest.

The northeastern portion of property is underlain by Early Cretaceous coarse-grained granodiorite with lesser quartz diorite and quartz monzonite. These rocks may contain up to 25% stubby amphibole and are locally foliated. Coeval pegmatite and aplite dykes are common locally.

Two types of faults occur on the property. The first set strikes north-northwest and dips between 50° and 70° to the southwest. These faults are parallel to the veins and locally mineralized. The second set of faults strike northeast and dip subvertically. These faults vary in their sense and magnitudes of displacement. Locally they cut the mineralized zones.

Gold and silver occur in a number of quartz-sulphide vein zones which cut Palaeozoic metamorphic rocks and Cretaceous quartz monzonite stocks, feldspar porphyry dykes and plugs, andesitic flows and pyroclastic rocks. The vein strikes northwest and dips from 80° NE to 45° SW. The veins comprise quartz lenses with arsenopyrite, pyrite, sphalerite, galena, tetrahedrite and stibnite. Depth of total oxidation ranges from 0 to 100 m depending on the type of mineralization and orientation of the vein.

## **GEOLOGY OF SOUTHERN CLAIMS**

The Buffalo and Nisling Lake Grids appear to have units of the Paleozoic rocks cutting across them identified as:

- a) a unit mapped as a schist-gneiss subunit, which includes biotite- quartz-feldspar schist, feldspar-augen gneiss, amphibolite with minor quartzite and marble.
- b) a unit mapped as metasediment composing of quartz-feldspar-mica-schist and quartzofeldspathic gneiss.

The magnetics signature over these grids appears to identify the metavolcanic unit with higher background readings and the metasediment with a lower gamma response. Strong conductors that cut across topography and follow magnetic lows are quite likely shears and will be investigated at a later date.

## **GEOLOGY OF NORTHERN CLAIMS**

The Klaza 1-3 grids appear to be primarily over a unit of granodiorites that has been mapped as Casino granodiorite of the Early Cretaceous age.

On grid 1 there are marked differences in magnetic intensity and it is thought that this might indicate different rock types and possibly later intrusions. Also very prominent in the magnetic data are areas of magnetic lows following known shears which in some cases have coincident VLF-EM conductors. These areas are of prime interest and are targeted for further work.

Grid 2 over the granodiorites is placed so as to extend the sulphide-gold mineralization of the shear-vein systems within the granodiorites of the Tawa Property.

Grid 3 is placed to the south of and parallel to grids 1 & 2. It is also in the granodiorite unit and into the volcanic units of Mt. Nansen which is mapped as andesite to latite massive flows and feeders. On this grid a soil geochemical survey was conducted.

## **GRID PREPERATION**

On the southern claims the Buffalo and the Nisling Lake Grids were laid out by two members of the BYG crew. Base lines were cut using a Trimble GPS with a base station for control. The cross lines were run every 100 metres as compass flagged lines using a hip-chain to put in 25 metre stations. In the process of surveying the geophysical crew took slope angles and recorded line ties at the Base Lines. From this an accurate map with topography elevations was generated.

On the northern claims the Base Lines and three tie lines for the three Klaza Grids was cut by Twin Mt. Enterprises of Whitehorse. Again the GPS was used as control and the lines were run and grids mapped in the same manner as grids on the southern claims.

Grid data was inputted to a computer and plotted on a 36" HP 650c plotter.

**TABLE 1 list of plates**

Plate 1	Grid & Claims Location Map (southern Claims)	In Pocket
Plate 2	Grid & Claims Location Map (northern claims)	In Pocket
Plate C-1	Gold Soil Geochemistry (Klaza Grid 3)	In Pocket
Plate C-2	Lead Soil Geochemistry (Klaza Grid 3)	In Pocket

## SOIL GEOCHEMISTRY

The soil survey was hindered in the beginning because of the lateness of the warming influence of summer. Because of late lingering frost south facing slopes in areas of promise were chosen for the initial stage of this survey. The base lines were completed so the area between lines 5800W and 4800W from 0 to 1500N were chosen to start this survey. In this area a reconnaissance soil line was run in late summer 1995 had produced some anomalous gold results. Sampled at that time was, a rusty area in a saddle, of what appeared to be sheared felsic volcanic rubble crop.

Manually operated hand held augers were used and generally near each station a site could be found where a sample of the proper "B" horizon could be taken. Frost still presented a problem. It was found that in areas where the frost was more intensive a sample could still be taken by stripping back the moss and leaving the site for a few days to thaw.

Because of the difficulty in obtaining samples, increasing the cost of sampling, and the cost of analysing, samples were taken on lines 100 metres apart and on 50 metre station spacing. It was thought that this spacing was tight enough to pick up any anomalous values in soils. Interesting anomalies would be followed up with tighter spaced sampling.

The samples were sent to Acme Analytical Laboratories in Vancouver and were sieved to minus 80 mesh and ICP'ed for 30 elements. Fire assay was done for Gold on each sample. Results were forwarded to BYG on computer disk in M.S. Excel format and as hard copies. A copy of the results are in appendices as pages 1-4 of report 96-3234 and pages 1-5 of report 96-2529.

Plate C-1 is a plot of the gold content in soil samples and Plate C-2 is a plot of the lead content in soil samples. Other elements were plotted and displayed on computer but no interesting anomalies resulted so are not included as plates in this report.

## **DISCUSSION OF RESULTS**

The geophysics on the three grids is of much interest. All three magnetic surveys will be a great help in geological mapping both in the lithological sense and the structural sense. The VLF-EM does show interesting conductors some of which upon investigation will reveal mineralized shears. Also the VLF-EM clearly shows breaks in conductivity which indicate possible crosscutting structures. A more complete grid by grid explanation of results can be found in the three individual reports that are as an addendum to this report.

Soil geochemistry, even though permafrost has created some problems and added to time and expense of the survey, has been found to be a useful method of exploration. Proper soil horizons are readily available and it is believed that results accurately reflect element content of underlying rocks. The 30 element ICP method of analysis has proved useful.

On plate C-1 gold in soils is plotted. Anomalies are quite low in value and seem to be only single station. Nonetheless is a population of elevated gold values which strikes across the grid at approximately 200 N crossing Line 4900 W to Line 5700 W. Within this area some of the higher gold numbers of the survey appear.

On plate C-2 lead in soils is plotted. This element was plotted because it was one of the other elements that showed values considered to be of an anomalous nature. There are about 12 lead results greater than 100 ppm. These are generally scattered about the area and show very little pattern. All but two of these higher values appear on the southern half of the grid. In some areas 2 or 3 station anomalies can be seen. Generally silver numbers are elevated at stations of higher lead values.

In general this grid covers an area of felsic volcanic rocks that in rubble crop is moderately rusty in part and is generally quite platy. It has the appearance of being sheared. A possible explanation of the soil geochemistry results may be that there are small stringers of sulphides scattered sparsely throughout this area.

## CONCLUSION AND RECOMMENDATIONS

On the Klaza1, Buffalo, and Nisling Lake Grids conclusions and recommendations are included in the individual reports which are an addendum to this report. In all three cases the magnetic results will be a great aid in geological mapping. Those determined to be the more interesting of the VLF-EM conductors will be intensively prospected, soil geochemed, have more sensitive geophysics done over them and if results indicate be trenched, and possibly drilled.

The soil survey on the Klaza 3 grid resulted in anomalies more of a sporadic nature than expected but nonetheless it is felt that soil geochemistry works well and is a valuable exploration tool. In areas of anomalies closer space geochemistry will be done to attempt to understand these anomalies and, of course, to see if they indicate economic mineralization. The problem of sampling through permafrost will be looked at and alternate methods, such as power augers, etc., may be employed.

B.Y.G Natural Resources

H. Eric Ewen

Mining Technician

Syd Wissers, P. Geop.

Geophysicist



## **REFERENCES**

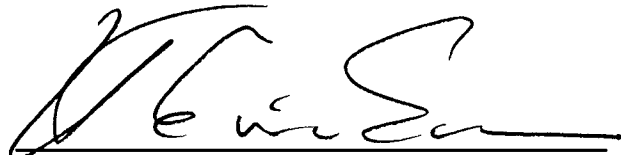
- Melling, D.R., 1995** Summary Report: 1995 Exploration Program
- Sinclair, W.D., Maloney, J.M. and Craig, D.B., 1974** Mineral Industry Report 1974 Yukon Territory, p. 126-127.
- Indian and Northern Affairs Canada** Yukon Mining and Exploration Overview 1988 p. 35-36.
- Indian and Northern Affairs Canada** Yukon Exploration 1985-1986 p. 337.
- Indian and Northern Affairs Canada** Yukon Exploration & Geology 1994 p. 5.

**APPENDIX I**

**STATEMENT OF QUALIFICATIONS**

I, H. Eric Ewen, of 3239 Ganymede Dr., Burnaby in the Province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am a graduate of the Haileybury School of Mines 1972.
2. THAT I have been engaged in mining and mining exploration since 1967.
4. THAT this report is based on fieldwork carried out by BYG Natural Resources Inc. and SJ Geophysics Ltd. personnel in April/June 1996.
5. THAT I own no shares, directly or indirectly in B.Y.G. Natural Resources Inc., nor do I expect to acquire any shares. I have no interest, directly or indirectly, in the Mt. Nansen Properties.

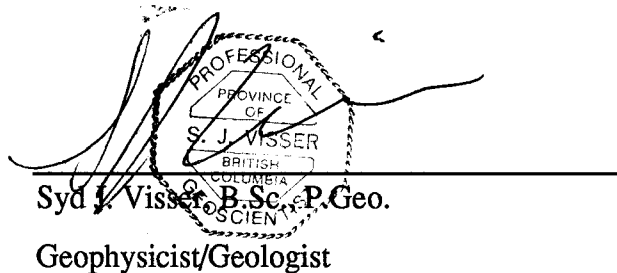


H. Eric Ewen Mining Technician

**STATEMENT OF QUALIFICATIONS**

I, Syd J. Visser, of 11762 - 94<sup>th</sup> Avenue, Delta, British Columbia, hereby certifies that:

- 1) I am a graduate of the University of British Columbia, 1981, where I obtained a B.Sc. (Hon.) Degree in Geology and Geophysics.
- 2) I am a graduate of Haileybury School of Mines, 1971.
- 3) I have been engaged in mining exploration since 1968.
- 4) I am a professional Geoscientist registered in British Columbia.



Syd J. Visser, B.Sc., P. Geo.  
Geophysicist/Geologist

## APPENDIX II

### LIST OF EXPENDITURES

#### A) PERSONNEL

Chris Caron c/o BYG- Mt. Nansen Carmacks, Yukon	74 days	x	\$125.00	=	\$9,250.00
	Field work, ran grid lies, take soil samples, cut base lines, operate GPS, general camp duties, supervise field crews.				
Robbie MacLean c/o BYG- Mt. Nansen Carmacks, Yukon	72 days	x	\$125.00	=	\$9,000.00
	Field work, ran grid lies, take soil samples, cut base lines, operate GPS				
Ryan Perie 48 Regen Crescent Georgetown, Ont L7G 1B1	44 days	x	\$125.00	=	\$5,500.00
	Field work, ran grid lies, take soil samples, operate GPS				
Wendy McPherson P.O. Box 3917 Whitehorse, Yukon	25 days	x	\$125.00	=	\$3,125.00
	Field work, ran grid lies, take soil samples, operate GPS				
Junior Mine Services RR # 1, Erin, Ont. N0B 1T0	30 days	x	\$300.00	=	\$9,000.00
	Supervision of entire exploration program, geochem surveys, geophysical surveys, GPS surveys.				
H. Eric Ewen 3239 Ganymede Dr Burnaby, B.C., V3J 1A5	12 days	x	\$300.00	=	\$3,600.00
	Supervision of entire exploration program, geochem surveys, geophysical surveys, GPS surveys, and preparation of assessment report				

**TOTAL OF PERSONNEL EXPENDITURES** **39,475.00**

#### B) MISCELLANEOUS

Camp costs (groceries, supplies, minor equipment, fuel, etc.) \$4,500.00

**TOTAL MISCELLANEOUS EXPENDITURES** **\$4,500.**

**C) RENTALS**

ATV's	52	days	x	\$42.8	=	\$2,226.00
2 ATV's for geophysical crew and 1 for geochem on Jules and Gerald Claims.						
4 Wheel Drive Suburban	2	months	x	\$1200	=	\$2,400.00
GPS Base Station	58	days	x	\$49.00	=	\$2,842.00
5 kw generator	1	month	x	\$550.00	=	\$550.00

**TOTAL OF RENTAL EXPENDITURES** = **\$8,018.00**

**D) CONTRACTORS**

Twin Mt. Enterprises (Suppliers of crews and materials necessary to cut Jules and Gerald Claims Base Lines) P.O. Box 4006, Whitehorse, Yukon	\$15,857.00
Cando International Food (Caterers at BYG Mine camp where crew stayed while working on Southern grids)	\$4,500.00
SJ Geophysics (Supplied crews and equipment necessary to carry out mag/vlf surveys) 11762 - 94 Ave, Delta, B.C., V4C 3R7	\$51,501.00
Acme Analytical ( Chem Lab in Vancouver that did ICP analysis) 452 West Hastings, Vancouver, B.C., V6A 1R6	\$2,500.00

**TOTAL OF CONTRACT EXPENDITURES** **\$74,358.00**

**SUMMARY OF EXPENSES**

A)	PERSONNEL	\$39,475.00
B)	MISCELLANEOUS	\$4,500.00
C)	RENTALS	\$8,018.00
D)	CONTRACTORS	\$74,358.00

**TOTAL EXPENDITURES**

**\$126,351.00**

**BREAKDOWN OF EXPENSES**

As a matter of convenience the total expense in this report is allocated to two areas:

1) The Southern Claims (Jenny 1-36, Johnny 1-21, Jimmy 1-8, Natalie 1-33, April 1-30)

2) The Northern Claims (Jules 1-12 & Gerald 1- 38)

These areas were worked on separately and at different times.

**1) Southern Claims**

**A) PERSONNEL**

Chris Caron	74 days	x	\$125	x	52%	=	\$4,810.00
Robbie MacLean	72 days	x	\$125	x	52%	=	\$4,680.00
Ryan Perie	44 days	x	\$125	x	52%	=	\$2,860.00
Wendy McPherson	25 days	x	\$125	x	52%	=	\$1,625.00
Junior Mine Services	25 days	x	\$300.00			=	\$7,500.00
H. Eric Ewen	3 days	x	\$300.00			=	\$900.00

**TOTAL PERSONNEL EXPENDITURES \$22,375.00**

**B) MISCELLANEOUS**

Camp costs (groceries, supplies, minor equipment, fuel, etc.) \$500.00

**TOTAL MISCELLANEOUS \$500.00**

**C) RENTALS**

4 Wheel Drive Suburban 1 months x \$1200 = \$1,200.00

GPS Base Station 58 days x \$49.00 x 52% = \$1,478.00

**TOTAL RENTALS \$2,678.00**

**D) CONTRACTERS**

Cando International Food (Caterers at BYG Mine camp where crew stayed while working on Southern grids)	\$4,500.00
SJ Geophysics (Supplied crews and equipment necessary to carry out Mag/VLF surveys)	\$29,440.00
<b>TOTAL OF CONTRACT EXPENDITURES</b>	<b>\$33,940.00</b>
<b><u>TOTAL AMOUNT SPENT ON SOUTHERN CLAIMS</u></b>	<b><u>\$ 59,493.00</u></b>

## BREAKDOWN OF EXPENSES

As a matter of convenience the total expense in this report is allocated to two areas:

- 1) The Southern Claims (Jenny 1-36, Johnny 1-21, Jimmy 1-8, Natalie 1-33, April 1-30)
- 2) The Northern Claims (Jules 1-12 & Gerald 1- 38  
These areas were worked on separately and at different times.

### 2) Northern Claims

#### A) PERSONNEL

Chris Caron	74 days	x	\$125	x	48%	=	\$4,440.00
Robbie MacLean	72 days	x	\$125	x	48%	=	\$4,320.00
Ryan Perie	44 days	x	\$125	x	48%	=	\$2,640.00
Wendy McPherson	25 days	x	\$125	x	48%	=	\$1,500.00
Junior Mine Services	5 days	x	\$300.00			=	\$1,500.00
H. Eric Ewen	9 days	x	\$300.00			=	\$2,700.00

**TOTAL PERSONNEL EXPENDITURES      \$17,100.00**

#### B) MISCELLANEOUS

Camp costs (groceries, supplies, minor equipment, fuel, etc.)      \$4,000.00

**TOTAL MISCELLANEOUS EXPENDITURES      \$4,000.00**

#### C) RENTALS

ATV's	52	days	x	\$42.8	=	\$2,226.00	
4 Wheel Drive Suburban	1	month	x	\$1200	=	\$1,200.00	
GPS Base Station	58 days	x	\$49.00	x	48%	=	\$1,364.00
5 kw generator	1	month	x	\$550.00	=	\$550.00	

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**TOTAL OF RENTAL EXPENDITURES                    \$5,340.00**

**D) CONTRACTORS**

Twin Mt. Enterprises (Suppliers of crews and materials necessary  
to cut Jules and Gerald Claims Base Lines)                    \$15,857.00

SJ Geophysics (Supplied crews and equipment necessary to carry  
out Mag/VLF surveys)                    \$22,061.00

Acme Analytical ( Chem Lab in Vancouver that did ICP analysis)                    \$2,500.00

**TOTAL OF CONTRACT EXPENDITURES                    \$40,418.00**

**TOTAL EXPENDITURES ON NORTHERN CLAIMS                    \$66,858.00**

**EXPENDITURES PER GROUPING - NORTHERN CLAIMS**

**GROUP # 1**

(HA02997)	Geochem	50%	x	\$2,500	=	\$1250
	Base Line	1.6 / 47.6	x	\$15,857	=	\$543
	Grid	16.7 / 178.5	x	\$17,100	=	\$1600
	Rentals & Misc. 25%		x	\$9,340	=	\$2335

**TOTAL \$5726.00**

**GROUP # 2**

(HA02998)	Geophysics	21 / 76.5	x	\$22,061	=	\$6056
	Base Line	2.4 / 47.6	x	\$15,857	=	\$814
	Grid	25.0 / 178.5	x	\$17,100	=	\$2395
	Rentals & Misc. 25%		x	\$9,340	=	\$2335

**TOTAL \$11,600.00**

**GROUP # 3**

(HA02999)	Geophysics	12 / 76.5	x	\$22,061	=	\$3460
	Base Line	2.7 / 47.6	x	\$15,857	=	\$916
	Grid	15.5 / 178.5	x	\$17,100	=	\$1484
	Rentals & Misc. 25%		x	\$9,340	=	\$2335

**TOTAL \$8,196.00**

**GROUP # 4**

(HA03000)	Geophysics	1.5 / 76.5	x	\$22,061	=	\$432
	Base Line	1.6 / 47.6	x	\$15,857	=	\$543
	Grid	10.5 / 178.5	x	\$17,100	=	\$1005
	Rentals & Misc. 25%		x	\$9,340	=	\$2335

**TOTAL \$4,316.00**

**Example of expenditure allocation ratios:**

76.5 km is the total geophysics done at a cost of \$22,061, 1.5 km on group 4. Allocation of expenditures uses this ratio.

47.6 km is the total base lines cut at a cost of \$15,857, 1.6 km on group 4. Allocation of expenditures uses this ratio.

178.5 km of lines put in at a cost of \$17,100, 10.5 km on group 4. Allocation of expenditures uses this ratio.

Rentals and misc. were divided equally between these 4 northern groups.

Of the geochem done 50% fell on group 1.

**EXPENDITURES PER GROUPING - SOUTHERN CLAIMS**

**GROUP # 5**

(HA03001)	Geophysics	11.2 / 106	x	\$29,440	=	\$3111
	Grid	13.0 / 120	x	\$22,375	=	\$2424
	Misc. & Cando	13.0 / 120	x	\$7,678	=	\$820
				<b><u>TOTAL</u></b>		<b><u>\$6356.00</u></b>

**GROUP # 6**

(HA03002)	Geophysics	9.2 / 106	x	\$29,440	=	\$2555
	Grid	10.5 / 120	x	\$22,375	=	\$1957
	Misc. & Cando	10.5 / 120	x	\$7,678	=	\$663
				<b><u>TOTAL</u></b>		<b><u>\$5157.00</u></b>

**GROUP # 7**

(HA03003)	Geophysics	6.9 / 106	x	\$29,440	=	\$1916
	Grid	8.2 / 120	x	\$22,375	=	\$1529
	Misc. & Cando	8.2 / 120	x	\$7,678	=	\$524
				<b><u>TOTAL</u></b>		<b><u>\$3970.00</u></b>

**GROUP # 8**

(HA03004)	Geophysics	17.9 / 106	x	\$29,440	=	\$4971
	Grid	18.8 / 120	x	\$22,375	=	\$3524
	Misc. & Cando	18.8 / 120	x	\$7,678	=	\$1202
				<b><u>TOTAL</u></b>		<b><u>\$9698.00</u></b>

**GROUP # 9**

(HA03005)	Geophysics	8.0 / 106	x	\$29,440	=	\$2222
	Grid	10.4 / 120	x	\$22,375	=	\$1939
	Misc. & Cando	10.4 / 120	x	\$7,678	=	\$665
				<b><u>TOTAL</u></b>		<b><u>\$4826.00</u></b>

**GROUP # 10**

(HA03006)	Geophysics	9.5 / 106	x	\$29,440	=	\$2638
	Grid	9.7 / 120	x	\$22,375	=	\$1809
	Misc. & Cando	9.7 / 120	x	\$7,678	=	\$620
				<b><u>TOTAL</u></b>		<b><u>\$5067.00</u></b>

**GROUP # 11**

(HA03007)	Geophysics	6.0	/ 106	x	\$29,440	=	\$1666
	Grid	7.2	/ 120	x	\$22,375	=	\$1342
	Misc. & Cando	7.2	/ 120	x	\$7,678	=	\$460
					<b><u>TOTAL</u></b>		<b><u>\$3468.00</u></b>

**GROUP # 12**

(HA03008)	Geophysics	6.0	/ 106	x	\$29,440	=	\$1666
	Grid	6.6	/ 120	x	\$22,375	=	\$1320
	Misc. & Cando	6.6	/ 120	x	\$7,678	=	\$422
					<b><u>TOTAL</u></b>		<b><u>\$3408.00</u></b>

**GROUP # 13**

(HA03009)	Geophysics	7.5	/ 106	x	\$29,440	=	\$2083
	Grid	8.1	/ 120	x	\$22,375	=	\$1510
	Misc. & Cando	8.1	/ 120	x	\$7,678	=	\$518
					<b><u>TOTAL</u></b>		<b><u>\$4111.00</u></b>

**Example of expenditure allocation ratios**

106 km is the total geophysics done at a cost of \$29,440. , 7.5 km on group 13. Allocation of expenditures uses this ratio.

120 km is the total grid lines ran at a cost of \$22,375. , 8.1 km on group 13. Allocation of expenditures uses this ratio.

Misc., rentals, Cando charges total \$7678. , and are allocated as the grid ratio dictates.

**APPENDIX III**

***SOIL GEOCHEM RESULTS***

RESULTS ARE FROM: ACME REPORT 96-3234      PAGES 1-4  
                          ACME REPORT 96-2592      PAGES 1-5

## GEOCHEMICAL ANALYSIS CERTIFICATE

BYG Natural Resources Inc. PROJECT KLAZA RIVER File # 96-3234 Page 1

110 Industrial Road, Whitehorse YT Y1A 2T9

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
4800 0 K	3	29	100	126	.6	15	9	758	2.63	66	<5	<2	<2	34	.8	6	<2	61	.47	.105	20	27	.51	268	.04	<3	1.76	.02	.10	<2	7
4800 50 K	2	25	32	95	.3	14	10	739	2.60	17	<5	<2	<2	53	.2	<2	<2	60	.69	.077	13	23	.51	369	.04	<3	1.62	.03	.09	<2	<2
4800 100 K	5	33	254	230	.8	15	9	1116	2.92	99	<5	<2	<2	31	.9	3	2	61	.45	.077	17	27	.50	146	.05	<3	1.73	.02	.11	<2	<2
4800 150 K	2	29	98	111	.6	15	11	804	2.97	16	<5	<2	<2	23	.8	<2	<2	71	.22	.091	13	28	.41	82	.08	<3	1.93	.01	.08	<2	<2
4800 200 K	1	15	24	65	<.3	13	6	422	2.12	8	<5	<2	4	26	<.2	<2	<2	48	.39	.052	17	22	.44	119	.09	<3	1.10	.03	.08	<2	<2
4800 250 K	2	20	36	86	<.3	15	9	810	2.86	12	<5	<2	2	33	4.5	<2	<2	62	.47	.066	18	26	.56	210	.06	<3	1.68	.02	.10	<2	3
4800 300 K	1	19	23	72	<.3	15	7	500	2.59	42	<5	<2	<2	28	<.2	<2	<2	67	.36	.067	13	23	.45	121	.08	<3	1.42	.02	.09	<2	<2
4800 350 K	1	18	19	57	<.3	15	6	410	2.31	14	<5	<2	2	26	<.2	<2	<2	60	.34	.060	14	24	.44	108	.09	<3	1.32	.02	.08	<2	<2
4800 400 K	2	49	33	54	.3	16	11	1782	2.19	12	<5	<2	<2	59	.4	<2	<2	43	.87	.170	46	21	.39	238	.03	<3	2.04	.02	.05	<2	<2
4800 450 K	2	20	64	97	<.3	11	7	615	2.38	20	6	<2	3	22	<.2	4	<2	60	.29	.056	16	19	.40	146	.07	<3	1.24	.02	.08	<2	4
4800 500 K	2	17	68	105	<.3	12	9	927	2.60	27	<5	<2	<2	23	.3	6	<2	59	.26	.067	14	23	.49	164	.05	<3	1.46	.02	.10	<2	3
4800 550 K	2	24	41	68	<.3	7	6	564	2.08	18	<5	<2	<2	26	.4	3	<2	50	.30	.061	17	15	.32	185	.04	<3	1.22	.02	.09	<2	<2
4800 600 K	1	23	40	83	.7	8	5	407	1.86	18	<5	<2	<2	26	.5	4	<2	49	.33	.082	16	13	.25	150	.04	<3	1.26	.03	.05	<2	<2
4800 700 K	2	23	59	100	<.3	12	8	919	2.49	19	<5	<2	<2	27	.3	4	<2	62	.38	.063	18	20	.47	207	.05	<3	1.45	.02	.09	<2	<2
4800 750 K	2	19	78	107	<.3	10	9	658	2.65	21	<5	<2	<2	27	.4	3	<2	62	.31	.049	17	19	.58	194	.03	<3	1.65	.01	.09	<2	<2
4800 800 K	1	17	48	93	<.3	12	5	219	1.93	15	<5	<2	3	21	<.2	4	<2	44	.35	.068	17	22	.48	123	.06	<3	1.31	.02	.08	<2	9
4800 850 K	1	12	35	74	<.3	10	5	233	1.55	7	<5	<2	<2	23	.5	3	<2	44	.28	.053	13	24	.43	171	.05	<3	1.47	.02	.06	<2	<2
4800 900 K	3	18	34	95	<.3	14	16	1697	4.01	27	<5	<2	<2	31	<.2	<2	<2	83	.43	.075	11	30	.59	299	.06	<3	1.93	.02	.07	2	<2
4800 1000 K	1	15	33	67	<.3	11	5	523	2.04	17	<5	<2	2	21	<.2	<2	<2	48	.32	.041	12	22	.46	186	.07	<3	1.47	.02	.07	<2	5
4800 1200 K	2	15	40	75	<.3	9	8	940	2.26	21	<5	<2	<2	32	<.2	3	<2	62	.37	.063	12	20	.44	269	.03	<3	1.42	.02	.06	<2	<2
4800 1250 K	2	19	44	105	<.3	9	8	896	2.64	26	<5	<2	2	28	<.2	4	2	58	.40	.054	14	18	.52	204	.06	<3	1.29	.02	.12	<2	2
4800 1300 K	2	17	59	82	<.3	9	7	584	2.43	20	<5	<2	<2	23	.3	5	2	52	.24	.062	15	17	.40	132	.04	<3	1.42	.02	.07	<2	<2
4800 1450 K	2	8	3	24	<.3	2	18	1789	3.99	<2	<5	<2	<2	34	<.2	<2	<2	29	.49	.096	5	4	.09	107	.04	<3	.34	.04	.01	<2	<2
4900 0 K	2	31	60	79	<.3	10	8	727	2.84	73	<5	<2	<2	44	<.2	3	<2	69	.53	.098	22	17	.49	196	.06	<3	1.65	.02	.10	<2	49
RE 4800 800 K	1	18	43	90	<.3	12	5	223	1.97	14	<5	<2	3	22	.3	4	<2	45	.36	.069	18	21	.49	124	.07	<3	1.35	.02	.09	<2	3
4900 50 K	2	32	37	65	.4	12	5	437	2.34	<2	<5	<2	<2	31	.2	7	<2	63	.40	.113	22	21	.45	205	.06	<3	1.69	.02	.06	2	7
4900 100 K	1	24	15	62	<.3	10	7	586	3.09	<2	<5	<2	<2	33	<.2	<2	<2	96	.49	.073	15	18	.36	141	.12	<3	1.33	.04	.06	<2	<2
4900 150 K	2	32	23	92	<.3	16	10	1384	2.75	4	<5	<2	<2	59	.9	<2	<2	57	1.05	.120	24	24	.63	261	.05	<3	2.34	.02	.10	<2	46
4900 200 K	1	20	20	61	<.3	10	5	247	1.79	4	<5	<2	<2	25	.3	<2	<2	47	.32	.061	14	18	.44	124	.07	<3	1.48	.02	.07	2	3
4900 250 K	2	16	23	57	<.3	10	8	999	2.75	4	<5	<2	<2	25	<.2	<2	<2	57	.37	.079	16	19	.44	137	.07	<3	1.56	.02	.07	<2	<2
4900 300 K	3	25	54	102	1.2	13	7	749	2.97	4	<5	<2	<2	23	<.2	<2	<2	77	.29	.089	20	30	.50	347	.06	<3	2.16	.01	.12	<2	6
4900 350 K	4	36	109	65	1.4	10	4	261	3.07	138	<5	<2	2	18	<.2	5	2	65	.25	.077	21	24	.38	216	.05	<3	1.69	.01	.10	<2	12
4900 400 K	2	28	69	122	.9	13	7	954	2.56	8	<5	<2	<2	35	1.0	3	<2	52	.50	.051	19	23	.48	227	.06	<3	1.63	.01	.13	2	<2
4900 450 K	1	20	37	108	<.3	11	6	578	2.34	13	<5	<2	3	76	<.2	<2	<2	49	.38	.042	15	22	.58	206	.09	<3	1.56	.02	.12	<2	4
4900 500 K	2	27	87	199	.3	12	9	1138	3.11	90	<5	<2	3	31	.7	2	<2	65	.42	.036	16	21	.68	220	.07	<3	2.00	.01	.14	<2	11
STANDARD C2/AU-S	24	63	45	142	6.4	82	36	1201	4.09	42	19	8	38	55	20.7	18	21	74	.55	.101	43	70	1.02	199	.09	28	2.08	.07	.15	12	49

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.

THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.

ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS &gt; 1%, AG &gt; 30 PPM &amp; AU &gt; 1000 PPB

- SAMPLE TYPE: P1-P13 SOIL GEO P14 ROCK ASSAY AU\*\* ANALYSIS BY FA/ICP FROM 30 GM SAMPLE.

Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 29 1996

DATE REPORT MAILED: Aug 12/96

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



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
4900 550 K	2	21	190	257	.4	8	6	816	2.62	72	<5	<2	6	24	1.1	4	2	52	.47	.041	19	16	.72	189	.05	<3	1.72	.01	.19	<2	8
4900 600 K	1	24	73	122	<.3	14	11	935	2.71	63	<5	<2	5	19	.4	<2	<2	60	.31	.045	15	24	.57	165	.08	<3	1.65	.02	.12	<2	4
4900 650 K	3	46	222	290	1.8	17	13	1762	3.16	53	<5	<2	3	42	1.4	4	<2	70	.86	.090	21	33	.67	379	.04	<3	2.76	.02	.16	<2	21
4900 700 K	2	34	49	124	.9	13	7	545	2.70	18	<5	<2	<2	39	1.1	2	<2	60	.81	.106	16	22	.40	354	.04	3	1.69	.02	.08	<2	<2
4900 750 K	1	24	13	61	<.3	8	6	359	2.89	3	<5	<2	<2	28	<.2	2	2	103	.49	.082	15	16	.26	172	.12	<3	.93	.02	.04	<2	<2
4900 800 K	1	25	21	59	.3	9	5	218	2.26	6	<5	<2	2	18	<.2	2	2	69	.29	.065	14	21	.42	149	.06	<3	1.52	.02	.07	<2	<2
4900 850 K	1	31	38	92	.9	9	5	328	2.22	212	<5	<2	3	22	.2	5	2	59	.32	.057	17	22	.53	276	.03	<3	1.87	.01	.10	<2	19
4900 950 K	2	37	85	172	2.0	12	7	861	2.57	19	<5	<2	7	27	1.2	10	<2	56	.49	.072	21	25	.47	251	.09	<3	1.34	.02	.14	<2	9
4900 1000 K	1	17	18	62	<.3	10	6	518	2.19	20	<5	<2	2	23	<.2	<2	<2	52	.39	.043	13	21	.45	159	.06	<3	1.33	.02	.07	<2	5
4900 1050 K	2	27	25	80	.5	13	8	604	2.71	26	<5	<2	<2	32	<.2	3	3	63	.52	.078	13	26	.52	253	.05	<3	1.80	.02	.09	<2	5
4900 1100 K	1	18	14	67	<.3	11	5	407	1.92	7	<5	<2	3	19	.2	3	2	45	.32	.048	14	24	.51	133	.08	<3	1.51	.02	.09	<2	4
4900 1150 K	1	20	23	73	<.3	12	4	239	2.00	14	<5	<2	3	20	<.2	2	<2	61	.34	.049	13	25	.58	158	.08	<3	1.66	.02	.08	<2	<2
4900 1200 K	2	16	5	37	<.3	4	18	3267	4.65	21	<5	<2	<2	22	<.2	<2	<2	91	.34	.084	8	10	.09	158	.10	<3	2.46	.03	.01	<2	6
4900 1250 K	1	22	4	53	<.3	7	8	954	2.73	<2	<5	<2	<2	36	<.2	<2	<2	96	.66	.083	6	12	.14	212	.12	<3	.60	.03	.02	<2	<2
4900 1300 K	1	18	20	72	<.3	10	6	388	2.44	<2	<5	<2	2	27	<.2	2	2	68	.43	.051	10	22	.48	149	.10	<3	1.36	.02	.06	<2	<2
4900 1450 K	1	8	<3	29	<.3	3	7	921	1.67	2	<5	<2	<2	22	<.2	<2	<2	55	.37	.068	6	6	.09	62	.09	<3	.33	.05	.03	<2	<2
4900 1500 K	1	9	<3	30	<.3	3	13	1242	1.91	<2	<5	<2	<2	31	<.2	<2	<2	58	.45	.067	10	6	.09	88	.08	<3	.36	.07	.03	<2	<2
5000 0 K	2	27	31	72	<.3	15	9	615	2.73	6	<5	<2	<2	28	<.2	<2	<2	67	.39	.069	22	26	.66	201	.07	<3	2.20	.02	.12	<2	7
5000 50 K	1	16	31	63	<.3	12	7	549	2.37	6	<5	<2	2	22	<.2	<2	<2	56	.34	.049	15	22	.52	138	.07	<3	1.42	.02	.10	<2	3
RE 5000 50 K	1	17	40	65	<.3	12	7	577	2.46	7	<5	<2	2	23	<.2	2	<2	58	.36	.053	16	23	.54	144	.07	3	1.47	.02	.11	<2	<2
5000 100 K	1	27	28	60	<.3	12	6	582	2.36	5	<5	<2	2	28	<.2	<2	<2	55	.35	.049	14	23	.51	172	.08	<3	1.54	.02	.09	<2	7
5000 150 K	1	19	72	126	<.3	10	7	718	2.75	2	<5	<2	2	25	.4	<2	<2	62	.36	.051	14	20	.60	174	.06	<3	1.61	.02	.13	<2	2
5000 200 K	4	33	67	150	.9	16	12	1814	3.36	10	<5	<2	2	33	.4	5	<2	70	.43	.078	27	31	.59	615	.03	<3	2.67	.01	.15	<2	17
5000 250 K	4	41	86	163	1.3	13	10	996	3.22	102	<5	<2	2	22	.8	5	3	61	.22	.063	24	29	.46	449	.03	<3	2.29	.01	.14	<2	<2
5000 300 K	3	19	94	88	.3	12	5	329	2.37	9	<5	<2	3	17	.3	<2	<2	54	.20	.023	12	23	.40	91	.09	<3	1.43	.01	.09	<2	<2
5000 350 K	2	23	32	61	.3	9	4	306	1.92	9	<5	<2	<2	18	.2	<2	<2	49	.15	.055	12	18	.19	119	.04	<3	.97	.01	.07	<2	<2
5000 400 K	2	21	57	71	.4	11	5	360	2.41	9	<5	<2	2	12	<.2	2	2	50	.15	.029	11	21	.36	87	.06	<3	1.34	.01	.09	<2	<2
5000 450 K	3	16	27	65	<.3	7	4	412	2.03	18	<5	<2	<2	17	<.2	2	<2	62	.20	.060	10	17	.22	110	.07	<3	.83	.01	.10	<2	5
5000 500 K	3	24	85	141	.4	10	6	556	2.42	11	<5	<2	2	13	<.2	3	<2	52	.14	.035	15	24	.40	146	.05	<3	1.32	.01	.09	<2	15
5000 550 K	3	33	112	138	.6	14	7	503	2.65	16	<5	<2	5	16	.4	3	3	59	.20	.029	14	29	.51	131	.07	<3	1.68	.01	.11	<2	6
5000 600 K	2	31	67	150	.6	15	21	3825	3.51	200	<5	<2	2	26	<.2	4	4	70	.41	.097	14	30	.57	186	.06	3	2.10	.02	.15	<2	65
5000 650 K	1	23	27	78	.3	12	10	807	2.79	12	<5	<2	<2	22	<.2	<2	<2	68	.35	.059	12	26	.50	165	.07	<3	1.68	.02	.10	<2	8
5000 700 K	2	28	51	134	<.3	12	8	742	2.97	13	<5	<2	2	35	<.2	<2	<2	67	.80	.058	15	22	.75	251	.06	<3	1.93	.02	.11	<2	<2
5000 900 K	2	19	60	169	.5	13	6	935	2.60	9	<5	<2	4	31	.3	2	<2	52	.56	.031	15	24	.49	225	.08	<3	1.33	.02	.09	<2	10
5000 950 K	1	18	29	132	.9	13	8	587	2.52	8	<5	<2	3	19	.3	<2	2	56	.27	.031	13	27	.52	133	.08	<3	1.60	.02	.11	<2	10
STANDARD C2/AU-S	22	59	41	143	6.1	76	37	1183	3.92	40	17	8	36	51	19.7	18	18	76	.56	.096	40	72	1.02	214	.08	27	1.96	.06	.14	10	46

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



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SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
5000 1000 K	2	61	40	128	.9	12	10	591	3.15	25	<5	<2	3	30	.3	5	4	70	.51	.081	29	25	.59	390	.06	<3	2.03	.02	.16	<2	16
5000 1050 K	1	19	23	68	<.3	16	8	461	2.65	7	<5	<2	2	21	<.2	<2	<2	58	.32	.046	16	28	.59	158	.10	<3	1.84	.02	.09	2	14
5000 1100 K	1	24	27	78	.3	13	7	667	2.32	8	<5	<2	3	24	<.2	2	<2	52	.41	.055	16	22	.49	188	.08	<3	1.49	.03	.07	<2	3
5000 1200 K	1	16	13	64	<.3	12	5	237	2.73	10	<5	<2	3	21	<.2	3	<2	60	.40	.056	13	24	.57	167	.07	<3	1.66	.02	.08	<2	2
5100 800 K	1	19	26	107	<.3	16	9	717	3.00	9	<5	<2	3	22	<.2	2	<2	65	.35	.045	22	30	.59	295	.07	<3	1.97	.02	.10	<2	<2
5100 1200 K	1	21	14	90	.3	17	9	779	3.27	8	<5	<2	3	31	<.2	<2	<2	66	.63	.047	20	31	.64	401	.06	<3	2.09	.02	.13	<2	3
5100 1300 K	3	30	45	110	<.3	13	9	823	3.34	6	<5	<2	6	25	<.2	4	<2	72	.51	.072	17	26	.66	226	.08	3	1.81	.02	.11	<2	<2
RE 5250 950 K	1	15	14	68	<.3	12	6	440	2.34	8	<5	<2	4	25	.2	<2	2	57	.50	.077	14	25	.54	119	.10	<3	1.23	.02	.09	<2	4
5100 1350 K	2	27	14	84	.3	14	9	780	2.74	9	<5	<2	2	31	<.2	3	<2	62	.65	.068	26	26	.56	264	.05	<3	1.77	.02	.08	<2	5
5100 1400 K	1	28	19	74	.5	12	9	808	2.52	32	<5	<2	3	36	<.2	<2	4	61	.61	.050	16	23	.54	292	.08	<3	1.80	.03	.11	<2	2
5250 850 K	2	35	34	96	.6	14	9	850	2.78	19	<5	<2	<2	42	.3	3	<2	63	.81	.155	26	28	.48	807	.04	<3	1.76	.02	.12	<2	3
5250 950 K	1	14	11	62	<.3	12	5	412	2.17	7	<5	<2	3	25	<.2	<2	<2	53	.46	.071	12	24	.50	122	.10	<3	1.19	.02	.10	<2	<2
5250 1000 K	1	17	8	59	<.3	11	6	422	2.73	16	<5	<2	2	20	<.2	2	3	67	.34	.061	14	24	.51	152	.08	<3	1.38	.02	.10	<2	<2
5250 1050 K	2	21	9	68	.3	5	19	2291	4.22	33	<5	<2	<2	26	<.2	<2	2	82	.39	.169	10	21	.51	199	.05	<3	1.74	.02	.07	<2	2
5250 1100 K	1	22	43	126	2.7	12	6	530	2.66	16	<5	<2	4	24	.3	4	2	59	.34	.033	13	23	.73	270	.06	<3	2.19	.02	.13	<2	3
5350 800 K	1	14	15	52	<.3	7	4	284	1.47	17	<5	<2	<2	14	.2	3	<2	37	.21	.052	17	18	.30	169	.03	<3	1.04	.01	.08	<2	5
5350 850 K	1	34	24	62	.7	8	7	908	2.18	21	<5	<2	<2	28	.3	2	<2	56	.40	.155	16	25	.36	311	.03	<3	1.56	.02	.08	<2	<2
5350 900 K	5	24	104	71	.3	6	1	239	14.82	252	<5	<2	6	18	<.2	<2	<2	220	.33	.059	28	20	.13	325	.03	<3	1.19	.01	.07	<2	2
5350 950 K	1	12	28	67	<.3	4	4	203	2.60	28	<5	<2	3	9	.4	3	2	54	.20	.052	14	12	.21	147	.03	<3	.93	.01	.10	<2	13
5350 1000 K	1	15	13	50	<.3	7	4	174	2.58	58	<5	<2	3	16	<.2	2	2	54	.32	.065	16	16	.35	148	.05	<3	1.26	.01	.13	<2	2
5350 1050 K	1	16	13	91	.3	11	7	583	3.87	25	<5	<2	2	18	<.2	<2	2	59	.27	.060	13	25	.54	159	.06	<3	1.65	.02	.10	<2	6
5400 550 K	2	20	42	85	<.3	14	7	586	2.62	6	<5	<2	2	17	<.2	<2	<2	63	.22	.057	17	29	.49	134	.09	<3	1.47	.01	.12	<2	<2
5400 600 K	1	15	26	84	<.3	10	7	580	2.57	40	<5	<2	<2	17	<.2	<2	<2	73	.22	.064	15	23	.36	172	.09	<3	1.20	.02	.07	<2	2
5400 650 K	1	21	39	93	<.3	12	8	791	2.37	34	<5	<2	<2	22	.5	<2	<2	58	.25	.073	15	28	.44	212	.05	<3	1.47	.02	.07	<2	<2
5400 750 K	1	21	41	71	<.3	12	6	502	2.30	12	<5	<2	<2	19	.2	<2	<2	57	.29	.062	12	22	.36	133	.06	<3	1.04	.02	.07	<2	<2
5400 800 K	2	20	31	79	<.3	12	8	884	2.48	31	<5	<2	<2	20	<.2	2	<2	61	.23	.078	15	27	.48	137	.06	<3	1.40	.01	.08	<2	14
5400 850 K	2	17	31	69	<.3	9	5	504	1.66	23	<5	<2	<2	17	.3	2	<2	44	.19	.072	14	24	.39	120	.05	<3	1.16	.01	.07	<2	<2
5400 900 K	2	17	52	60	<.3	9	4	193	1.69	28	<5	<2	3	14	.3	3	<2	57	.26	.063	17	21	.38	103	.07	<3	1.31	.01	.10	<2	10
5400 950 K	<1	11	28	63	<.3	7	3	165	1.07	4	<5	<2	4	15	.2	3	2	33	.30	.057	15	17	.37	99	.09	<3	1.02	.01	.11	<2	4
5400 1000 K	<1	8	19	60	<.3	7	3	291	1.08	3	<5	<2	3	16	.2	2	<2	28	.33	.059	11	16	.34	147	.08	<3	.97	.02	.10	<2	19
5400 1050 K	<1	10	20	57	<.3	6	3	283	1.02	5	<5	<2	4	15	<.2	2	2	29	.29	.048	13	17	.36	140	.08	<3	.92	.01	.09	<2	<2
5400 1095 K	2	25	15	106	.4	13	6	638	2.80	40	<5	<2	<2	29	.6	<2	2	69	.43	.143	16	33	.55	249	.04	<3	1.92	.02	.10	<2	4
5400 1150 K	1	14	10	60	<.3	11	15	1295	3.21	8	<5	<2	2	24	<.2	<2	<2	66	.36	.054	16	27	.57	233	.05	<3	1.86	.02	.10	<2	6
5400 1200 K	<1	10	11	33	<.3	7	3	118	1.01	<2	<5	<2	4	16	<.2	<2	9	27	.28	.042	13	17	.33	110	.07	<3	1.04	.01	.05	<2	2
5400 1340 K	2	20	23	62	<.3	17	16	1426	3.63	3	<5	<2	5	16	.2	<2	8	76	.20	.040	15	28	.71	184	.06	<3	3.36	.02	.11	<2	2
STANDARD C2/AU-S	20	58	39	137	6.1	69	34	1100	3.70	35	20	7	35	49	18.3	16	16	71	.53	.101	39	65	.93	198	.08	24	1.90	.06	.14	10	50

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



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SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	U ppm	Au** ppb
5400 1450 K	1	45	16	56	<.3	20	9	444	2.63	12	<5	<2	4	22	<.2	3	6	56	.36	.030	18	28	.64	258	.09	4	1.81	.02	.14	<2	2
5500 550 K	1	16	54	152	<.3	14	5	479	2.38	9	5	<2	2	21	.6	2	2	50	.21	.050	23	23	.40	199	.05	3	1.72	.01	.14	<2	3
5500 600 K	1	13	15	59	<.3	10	6	412	2.58	13	8	<2	2	18	<.2	5	2	66	.21	.053	16	20	.37	115	.07	4	1.21	.01	.12	<2	<2
5500 1100 K	<1	9	17	54	<.3	9	5	190	1.12	5	<5	<2	4	17	<.2	3	<2	31	.31	.056	13	20	.43	124	.10	3	1.22	.02	.09	<2	7
5500 1150 K	<1	15	16	62	<.3	10	5	210	1.47	2	<5	<2	7	21	<.2	3	2	48	.34	.042	17	21	.55	192	.08	<3	1.67	.02	.16	<2	4
5500 1200 K	4	19	28	66	<.3	11	7	367	9.22	87	<5	<2	4	25	.2	3	9	208	.45	.072	16	26	.54	159	.08	<3	1.60	.02	.11	<2	7
5500 1250 K	1	29	16	58	<.3	10	5	199	2.18	21	<5	<2	2	26	<.2	2	22	58	.52	.060	16	20	.50	233	.05	3	1.55	.02	.11	<2	<2
5700 550 K	1	16	28	116	<.3	13	10	1036	2.64	14	<5	<2	4	15	.8	3	3	48	.18	.069	39	19	.48	246	.06	<3	1.95	.01	.21	<2	<2
7400 1750 K	2	30	16	94	<.3	15	9	830	2.88	6	<5	<2	<2	31	.4	3	2	66	.35	.078	15	30	.50	357	.06	3	1.96	.02	.14	<2	13
7500 3650 K	2	17	10	126	.3	13	8	2766	2.49	9	6	<2	<2	40	.4	<2	<2	41	.49	.081	11	17	.37	329	.04	<3	1.53	.03	.06	<2	<2
7500 3700 K	1	26	7	63	<.3	9	7	775	1.86	7	<5	<2	2	35	<.2	<2	<2	44	.44	.081	13	14	.34	224	.06	<3	1.21	.04	.04	<2	2
7500 3750 K	1	11	12	58	<.3	11	6	391	1.77	8	<5	<2	3	41	.2	<2	<2	40	.49	.074	15	17	.37	270	.05	<3	1.18	.02	.05	<2	<2
7500 3800 K	1	20	12	56	<.3	9	6	329	2.75	20	<5	<2	<2	45	<.2	<2	<2	54	.54	.093	15	16	.36	198	.07	<3	1.08	.03	.05	<2	<2
7500 3850 K	<1	11	14	59	<.3	9	5	237	1.74	7	<5	<2	3	35	<.2	<2	<2	46	.49	.094	16	17	.38	181	.06	<3	1.05	.02	.05	<2	4
7500 3900 K	1	8	10	47	<.3	7	5	181	1.52	7	<5	<2	3	25	<.2	<2	<2	40	.41	.084	14	13	.31	151	.06	<3	.87	.02	.05	<2	5
7500 3950 K	1	21	3	45	<.3	10	7	362	2.16	7	<5	<2	3	46	.2	<2	<2	53	1.15	.060	28	18	.54	632	.05	<3	1.40	.02	.10	<2	2
7500 4050 K	<1	22	5	46	<.3	11	8	315	2.38	3	<5	<2	5	44	<.2	<2	<2	61	1.05	.055	54	21	.67	673	.06	<3	1.82	.02	.10	<2	<2
7500 4100 K	1	14	3	47	<.3	10	8	384	2.54	3	<5	<2	4	30	<.2	<2	<2	66	.45	.026	15	16	.55	285	.09	<3	1.50	.03	.10	<2	7
7500 4150 K	1	11	6	47	<.3	9	7	427	2.42	6	<5	<2	5	23	<.2	<2	<2	62	.37	.020	15	20	.59	320	.11	<3	1.36	.02	.14	<2	<2
7500 4200 K	1	19	8	100	<.3	8	10	1055	3.57	5	<5	<2	16	30	<.2	<2	<2	75	.56	.042	20	16	.70	470	.06	<3	1.88	.02	.15	<2	<2
7500 4250 K	1	13	9	70	<.3	15	8	426	3.13	5	<5	<2	5	31	<.2	<2	<2	84	.42	.021	15	34	.72	394	.15	3	1.89	.02	.16	<2	<2
7500 4300 K	1	9	7	57	<.3	10	6	348	2.28	6	<5	<2	7	22	<.2	<2	<2	53	.31	.020	20	19	.51	276	.10	3	1.35	.02	.14	<2	14
7500 4350 K	1	14	7	48	<.3	9	7	383	2.16	4	6	<2	3	29	<.2	2	<2	50	.44	.033	15	17	.37	445	.05	3	1.32	.02	.14	<2	7
RE 7500 3950 K	1	23	5	50	.3	11	8	407	2.40	3	<5	<2	3	51	.2	<2	<2	58	1.30	.069	32	21	.61	725	.06	<3	1.57	.02	.10	<2	2
7500 4400 K	1	13	11	51	<.3	6	6	379	2.08	5	<5	<2	3	35	.3	<2	<2	46	.55	.051	20	11	.31	485	.04	<3	1.18	.03	.12	<2	2
7500 4450 K	1	7	6	51	<.3	7	7	446	2.65	7	<5	<2	8	45	.2	<2	<2	64	.46	.037	20	15	.48	270	.09	<3	1.21	.02	.13	<2	<2
7500 4500 K	1	12	6	59	<.3	11	9	483	2.98	5	<5	<2	4	30	<.2	<2	2	75	.43	.021	14	23	.69	309	.12	<3	1.81	.02	.15	<2	<2
7500 4550 K	1	15	6	55	<.3	15	9	473	2.89	6	<5	<2	6	29	<.2	<2	<2	68	.42	.033	14	28	.70	307	.11	<3	2.06	.02	.12	<2	<2
7500 4590 K	1	18	6	58	.3	13	10	551	3.09	6	<5	<2	6	32	<.2	<2	2	70	.53	.042	26	24	.73	570	.07	<3	2.24	.02	.13	<2	3
7600 3500 K	4	32	<3	23	<.3	6	5	337	4.29	25	<5	<2	<2	37	.2	2	<2	78	.47	.112	11	16	.12	304	.05	<3	.96	.04	.03	<2	<2
7600 3550 K	1	17	<3	76	<.3	7	16	3868	1.67	<2	<5	<2	<2	73	.5	<2	<2	40	1.98	.062	24	9	.26	815	.04	4	.97	.03	.05	<2	<2
7600 3600 K	4	18	5	188	<.3	16	13	6930	3.04	20	<5	<2	<2	66	1.1	<2	3	44	.72	.072	11	17	.37	533	.04	<3	1.46	.03	.06	<2	2
7600 3650 K	2	24	5	169	<.3	18	11	1212	1.89	8	6	<2	<2	31	.6	2	<2	47	.38	.057	9	20	.35	430	.05	<3	1.67	.04	.07	<2	<2
7600 3700 K	1	20	12	74	<.3	11	7	665	1.82	2	<5	<2	<2	72	.5	<2	<2	60	.75	.094	12	17	.36	344	.08	3	1.17	.02	.04	<2	42
7600 3750 K	<1	35	16	98	.4	13	7	376	1.91	10	<5	<2	<2	67	.6	<2	<2	49	.72	.088	17	21	.50	289	.07	3	1.39	.02	.06	<2	6
STANDARD C2/AU-S	19	55	35	137	6.2	71	36	1140	3.90	43	14	8	34	51	20.6	14	21	71	.54	.104	39	64	1.00	205	.08	29	1.97	.06	.15	14	48

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



GEOCHEMICAL ANALYSIS CERTIFICATE



BYG Natural Resources Inc. PROJECT MT. NANSEN File # 96-2592 Page 1  
110 Industrial Road, Whitehorse YT Y1A 2T9

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
5700W 1500N	1	18	18	105	.3	13	8	641	2.86	4	<5	<2	2	31	.3	3	<2	65	.59	.051	13	24	.67	208	.09	5	1.90	.03	.13	<2	4
5700W 1450N	1	12	11	80	<.3	12	8	565	2.63	8	<5	<2	4	27	.2	<2	<2	62	.46	.036	14	23	.69	154	.11	5	1.72	.03	.14	2	3
5700W 1400N	1	20	6	72	<.3	13	8	499	2.87	9	<5	<2	2	28	<.2	2	3	69	.43	.043	17	24	.71	199	.11	3	2.32	.03	.14	<2	1
5700W 1000N	1	31	71	94	<.3	12	7	780	2.53	14	<5	<2	3	24	.5	4	9	59	.44	.049	19	20	.52	160	.07	<3	1.35	.03	.10	<2	1
5700W 950N	<1	23	19	63	<.3	13	6	471	2.39	13	<5	<2	5	27	.2	4	3	53	.39	.022	14	19	.52	129	.09	4	1.24	.03	.12	<2	2
5700W 900N	1	17	12	63	<.3	10	8	421	2.45	13	<5	<2	3	19	.3	<2	<2	54	.26	.020	17	19	.56	137	.08	3	1.75	.02	.09	<2	1
5700W 800N	1	14	50	113	<.3	10	8	738	2.66	29	<5	<2	<2	19	.4	<2	<2	60	.28	.058	21	17	.42	173	.06	3	1.34	.02	.11	<2	1
5700W 700N	1	17	19	77	<.3	10	8	828	2.68	31	<5	<2	<2	17	<.2	2	2	57	.25	.059	23	20	.49	153	.06	3	1.56	.02	.12	<2	1
5700W 650N	1	11	24	70	<.3	9	6	869	2.42	5	<5	<2	<2	17	<.2	<2	2	56	.25	.047	30	13	.37	167	.05	6	1.26	.02	.10	<2	4
5700W 600N	1	14	25	73	<.3	11	8	640	2.50	5	<5	<2	3	17	<.2	2	<2	53	.32	.060	28	20	.42	165	.06	<3	1.20	.02	.14	<2	19
5700W 500N	1	14	29	60	<.3	13	6	554	2.54	10	<5	<2	<2	13	.2	<2	<2	62	.16	.027	14	24	.34	80	.08	<3	1.12	.01	.06	<2	1
5700W 450N	1	9	18	57	<.3	12	5	334	2.01	6	<5	<2	3	13	.2	<2	<2	44	.20	.032	18	20	.34	77	.07	3	1.03	.01	.06	<2	<1
5700W 400N	1	9	23	64	<.3	11	4	423	1.96	8	<5	<2	5	14	.2	2	<2	41	.25	.034	25	19	.31	127	.07	3	.94	.02	.07	<2	2
5700W 300N	1	13	11	73	<.3	13	7	354	2.42	7	<5	<2	<2	13	<.2	<2	<2	54	.17	.032	15	26	.50	85	.08	<3	1.53	.01	.14	<2	2
5700W 250N	1	15	16	74	<.3	11	5	282	2.34	7	<5	<2	2	16	<.2	<2	<2	52	.21	.028	14	26	.46	112	.09	<3	1.53	.02	.10	<2	1
5700W 200N	1	11	12	69	<.3	13	8	553	2.34	6	<5	<2	2	19	<.2	<2	<2	53	.32	.061	20	23	.45	134	.08	<3	1.38	.02	.10	<2	48
5700W 150N	<1	13	14	63	<.3	12	7	463	2.77	3	<5	<2	3	22	<.2	<2	<2	67	.43	.075	21	26	.46	157	.08	5	1.24	.02	.11	<2	4
5700W 100N	1	30	21	132	.3	12	7	546	2.99	9	<5	<2	<2	22	<.2	2	<2	66	.24	.077	28	19	.46	270	.05	4	2.06	.02	.14	<2	3
5700W 50N	1	19	26	83	<.3	12	8	662	2.23	5	<5	<2	<2	26	.3	<2	2	52	.34	.061	16	21	.51	149	.07	<3	1.50	.02	.09	<2	3
5700W ON	1	17	25	64	<.3	13	6	352	2.20	7	<5	<2	<2	21	<.2	<2	3	51	.24	.058	16	22	.45	142	.07	<3	1.47	.02	.08	<2	3
5600W 1500N	1	19	8	74	<.3	10	8	371	2.17	2	<5	<2	2	28	.2	3	<2	50	.55	.039	16	24	.59	175	.08	<3	1.56	.03	.10	<2	1
5600W 1450N	<1	14	8	60	<.3	11	10	470	2.45	5	<5	<2	3	27	<.2	<2	3	56	.40	.034	16	20	.58	153	.10	<3	1.54	.03	.13	2	2
5600W 1400N	1	27	11	108	.3	20	14	789	3.24	6	<5	<2	<2	50	.5	<2	<2	82	.89	.070	24	35	.88	294	.11	<3	2.87	.04	.15	<2	2
5600W 1350N	<1	14	8	61	<.3	13	7	362	2.13	6	<5	<2	2	25	<.2	<2	3	49	.43	.028	12	21	.56	145	.09	4	1.53	.03	.10	<2	<1
5600W 1150N	1	13	12	63	<.3	7	4	203	1.75	5	<5	<2	<2	19	<.2	3	3	42	.27	.052	14	16	.44	142	.04	3	1.37	.02	.05	<2	<1
5600W 1000N	1	19	8	80	<.3	11	6	489	2.24	9	<5	<2	2	28	.3	<2	3	51	.45	.048	17	22	.58	160	.08	<3	1.58	.03	.13	<2	2
RE 5600W 1000N	<1	18	10	75	<.3	9	6	454	2.14	8	<5	<2	2	26	.2	<2	<2	48	.43	.046	16	21	.55	152	.08	3	1.50	.02	.12	<2	5
5600W 950N	1	12	13	83	<.3	9	7	455	2.29	8	<5	<2	2	21	<.2	2	<2	57	.29	.031	10	22	.45	105	.10	<3	1.31	.02	.10	<2	1
5600W 850N	1	15	46	100	<.3	8	8	652	2.33	35	<5	<2	<2	21	<.2	2	3	48	.38	.058	28	17	.44	193	.04	<3	1.43	.02	.10	<2	5
5600W 800N	1	13	13	68	<.3	9	8	703	2.57	16	<5	<2	2	23	<.2	<2	<2	58	.38	.063	19	19	.57	161	.07	<3	1.56	.02	.14	<2	2
5600W 750N	1	14	28	83	<.3	9	10	1006	2.75	46	<5	<2	<2	19	<.2	3	<2	57	.26	.052	21	19	.54	182	.07	<3	1.68	.02	.20	<2	2
5600W 700N	1	9	13	55	<.3	8	5	499	2.05	15	5	<2	3	16	<.2	<2	<2	42	.30	.061	21	17	.40	143	.06	<3	1.18	.02	.12	<2	1
5600W 650N	2	30	11	72	<.3	10	7	754	2.76	5	<5	<2	<2	19	.2	<2	<2	75	.22	.071	22	22	.31	118	.08	4	1.42	.02	.06	<2	10
5600W 600N	1	18	10	80	<.3	15	6	432	2.75	7	<5	<2	<2	16	<.2	<2	3	66	.19	.036	12	23	.39	90	.08	<3	1.23	.02	.06	<2	5
5600W 550N	2	19	15	83	<.3	16	7	504	3.21	4	<5	<2	<2	16	<.2	<2	<2	77	.19	.037	13	31	.54	87	.11	3	1.64	.02	.10	<2	1
STANDARD C2/AU-S	19	55	36	137	6.0	70	35	1123	3.76	39	18	7	33	50	18.3	16	22	69	.55	.091	38	62	.96	195	.08	28	1.94	.06	.14	14	47

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.

THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.

- SAMPLE TYPE: SOIL AU\* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.

Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 3 1996 DATE REPORT MAILED: July 10/96 SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



AGRI ANALYTICAL

## BYG Natural Resources Inc. PROJECT MT. NANSEN FILE # 96-2592

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AGRI ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
5600W 500N	1	14	11	55	<.3	13	8	375	2.23	6	<5	<2	2	13	<.2	<2	<2	49	.17	.018	15	22	.43	84	.09	<3	1.29	.02	.07	<2	2
5600W 450N	1	12	12	58	<.3	11	6	388	2.28	3	<5	<2	<2	13	<.2	<2	<2	52	.15	.021	14	22	.36	80	.09	<3	1.12	.02	.07	<2	1
5600W 400N	1	11	14	73	<.3	15	7	586	2.10	<2	<5	<2	2	14	.2	2	<2	44	.21	.025	25	26	.49	114	.09	<3	1.52	.02	.13	<2	1
5600W 350N	1	15	6	69	<.3	17	8	350	2.86	7	<5	<2	2	16	.3	2	<2	69	.20	.029	14	35	.61	78	.12	<3	1.94	.02	.09	<2	2
5600W 300N	1	15	4	62	<.3	14	7	348	2.48	8	<5	<2	<2	13	<.2	<2	<2	56	.17	.034	17	29	.49	65	.09	<3	1.77	.02	.08	<2	19
5600W 250N	1	12	19	64	<.3	10	10	884	2.49	7	<5	<2	2	20	<.2	2	3	57	.33	.064	22	25	.42	142	.08	<3	1.31	.01	.10	<2	15
5600W 200N	1	33	31	118	<.3	12	13	1163	2.93	8	<5	<2	<2	31	.3	2	5	69	.37	.065	23	28	.83	320	.08	<3	2.20	.02	.23	<2	1
5600W 150N	1	20	16	83	<.3	12	9	601	2.76	12	<5	<2	2	24	.4	<2	<2	64	.31	.060	23	27	.58	213	.08	<3	1.73	.02	.13	<2	<1
5600W 100N	1	18	33	110	<.3	9	10	943	2.93	14	<5	<2	3	20	.2	4	3	63	.28	.052	25	19	.44	255	.05	3	1.63	.02	.16	<2	1
5600W 50N	1	16	12	61	<.3	10	6	353	2.37	4	<5	<2	<2	17	<.2	<2	<2	55	.21	.037	16	24	.42	110	.08	<3	1.22	.02	.07	<2	2
5600W 0N	2	17	17	77	<.3	13	8	545	2.54	8	<5	<2	<2	14	.2	<2	4	63	.14	.037	18	25	.37	107	.08	<3	1.56	.02	.09	<2	2
5500W 1500N	<1	16	3	53	<.3	14	9	503	2.40	5	<5	<2	2	20	<.2	<2	3	54	.25	.039	14	24	.60	111	.09	<3	1.98	.02	.11	<2	1
5500W 1450N	<1	17	5	58	<.3	15	10	395	2.64	11	<5	<2	2	31	<.2	2	4	64	.42	.040	18	25	.66	150	.11	4	2.26	.02	.12	<2	1
5500W 1400N	<1	16	5	66	<.3	10	8	412	2.43	8	<5	<2	2	29	.4	<2	2	58	.39	.035	13	22	.62	113	.10	<3	1.68	.04	.12	<2	2
5500W 1350N	1	17	6	64	<.3	13	9	346	2.56	7	<5	<2	2	22	.5	2	4	60	.31	.028	16	26	.54	156	.08	4	1.97	.02	.09	<2	<1
5500W 1300N	<1	13	11	71	<.3	9	7	587	2.31	6	<5	<2	2	31	<.2	<2	2	54	.54	.033	13	20	.63	129	.08	<3	1.63	.03	.11	<2	1
5500W 850N	1	20	23	87	<.3	10	12	685	3.08	11	<5	<2	4	23	.3	<2	3	74	.28	.034	14	26	.80	143	.07	<3	2.50	.02	.22	<2	3
5500W 800N	1	14	16	79	<.3	9	9	915	2.52	11	<5	<2	2	20	<.2	<2	<2	49	.28	.047	14	18	.41	189	.05	3	1.44	.02	.14	<2	2
5500W 750N	1	23	41	84	<.3	17	12	1115	3.07	16	<5	<2	3	18	<.2	<2	5	67	.21	.044	18	33	.73	196	.10	3	2.79	.02	.15	<2	3
5500W 700N	1	20	31	72	<.3	10	11	836	2.63	9	<5	<2	<2	19	<.2	2	3	59	.20	.045	25	24	.63	182	.07	<3	2.26	.02	.16	<2	2
5500W 650N	<1	14	11	76	<.3	5	11	973	2.64	<2	<5	<2	4	57	<.2	<2	<2	65	.64	.042	17	14	1.36	697	.02	<3	3.49	.01	.32	<2	1
5500W 600N	1	25	24	87	<.3	15	9	668	2.81	10	<5	<2	<2	29	<.2	2	5	65	.34	.074	21	33	.79	242	.07	<3	2.38	.02	.13	<2	1
5500W 500N	1	17	34	107	<.3	10	11	821	2.91	4	<5	<2	5	20	.5	<2	<2	63	.33	.043	31	29	.82	272	.08	<3	2.07	.02	.33	<2	4
5500W 450N	2	33	60	117	<.3	13	20	2664	2.79	8	<5	<2	<2	22	.3	<2	3	56	.23	.081	35	26	.69	318	.05	<3	2.63	.02	.14	<2	2
5500W 400N	1	45	291	94	<.3	13	7	1052	2.45	11	<5	<2	5	18	.5	4	<2	61	.30	.062	30	23	.42	200	.08	<3	1.29	.02	.11	<2	2
5500W 350N	1	17	19	64	<.3	13	7	419	2.59	4	<5	<2	<2	16	<.2	<2	2	64	.17	.036	12	25	.39	98	.09	<3	1.31	.02	.08	<2	2
5500W 300N	1	20	14	71	<.3	11	8	533	2.96	6	<5	<2	<2	16	<.2	<2	<2	84	.16	.048	11	21	.31	88	.10	<3	1.06	.01	.06	<2	<1
RE 5500W 250N	<1	19	17	84	<.3	13	7	510	2.41	8	<5	<2	3	21	.2	<2	3	58	.31	.050	17	27	.54	124	.10	<3	1.42	.02	.09	<2	10
5500W 200N	<1	21	20	88	<.3	16	9	525	2.47	8	<5	<2	3	22	<.2	<2	5	60	.32	.053	17	28	.56	132	.11	4	1.49	.02	.10	<2	46
5500W 150N	1	13	10	52	<.3	11	6	338	2.09	6	<5	<2	<2	13	<.2	<2	3	44	.16	.026	17	21	.44	123	.07	4	1.45	.02	.08	<2	<1
5500W 150N	<1	13	21	94	<.3	13	8	711	2.66	5	<5	<2	4	20	<.2	2	2	58	.37	.061	25	23	.59	215	.08	4	1.58	.02	.15	<2	15
5500W 100N	1	17	15	92	<.3	9	7	403	2.44	4	<5	<2	<2	17	.2	2	<2	62	.15	.049	13	16	.27	127	.06	<3	1.05	.02	.07	<2	3
5500W 50N	1	17	37	185	<.3	12	9	861	2.47	9	<5	<2	4	16	.8	2	4	48	.20	.034	28	24	.47	212	.07	<3	1.63	.02	.11	<2	41
5500W 0N	1	9	21	58	<.3	8	5	583	1.74	4	<5	<2	6	12	.4	3	6	36	.21	.040	27	14	.26	149	.06	5	.93	.01	.07	<2	2
5400W 1500N	<1	21	19	69	<.3	13	12	537	3.16	6	<5	<2	2	21	<.2	2	4	63	.31	.042	14	27	.62	112	.07	3	2.47	.02	.12	<2	2
STANDARD C2/AU-S	19	55	38	142	6.0	72	37	1139	3.87	42	20	8	35	52	19.4	17	23	72	.52	.088	41	65	.99	205	.09	31	2.02	.06	.15	13	53

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
5400W 1400N	1	25	21	71	<.3	12	9	856	3.09	5	<5	<2	5	36	<.2	<2	3	59	.47	.022	30	17	.52	255	.04	<3	1.94	.02	.10	<2	2
5400W 1300N	1	17	8	53	<.3	14	7	287	2.41	5	<5	<2	<2	22	<.2	<2	3	53	.29	.046	13	26	.52	118	.09	5	2.11	.01	.09	<2	2
5400W 1250N	2	28	26	72	<.3	10	13	1219	3.73	2	<5	<2	3	21	<.2	<2	11	73	.33	.057	16	15	.55	211	.06	3	1.62	.02	.15	<2	1
5400W 700N	1	22	32	97	<.3	13	9	1100	2.43	31	<5	<2	<2	24	.6	2	4	58	.31	.071	17	26	.51	190	.07	5	1.61	.02	.08	<2	1
5400W 600N	1	12	25	87	<.3	12	9	646	2.72	44	<5	<2	<2	17	.4	<2	<2	75	.25	.059	16	21	.38	151	.10	5	1.18	.02	.08	<2	3
5400W 500W	1	20	40	139	<.3	16	8	793	2.90	7	<5	<2	<2	23	.5	<2	2	67	.31	.067	22	30	.57	255	.08	<3	1.83	.01	.11	<2	3
5400W 450N	1	15	36	127	<.3	13	7	590	2.43	6	<5	<2	2	15	.2	<2	3	54	.21	.040	19	24	.42	119	.08	4	1.34	.02	.09	<2	1
5400W 400N	2	22	53	145	<.3	13	11	1257	2.90	13	<5	<2	<2	19	.7	<2	6	69	.23	.074	20	25	.40	198	.07	4	1.50	.02	.11	2	2
5400W 350N	2	9	141	120	<.3	5	3	665	1.37	8	<5	<2	4	14	.2	<2	4	18	.08	.028	32	7	.10	149	.01	4	.62	.01	.12	<2	1
5400W 300N	2	22	32	109	<.3	21	9	817	2.91	11	<5	<2	<2	16	.3	<2	3	68	.19	.044	13	30	.51	118	.09	3	1.57	.01	.08	<2	2
5400W 250N	1	16	23	81	<.3	19	7	510	2.58	7	<5	<2	2	15	<.2	<2	2	58	.21	.028	15	30	.58	101	.10	<3	1.72	.02	.10	<2	5
5400W 200N	1	16	20	73	<.3	18	7	524	2.18	13	<5	<2	3	13	.3	<2	2	48	.19	.020	14	24	.49	94	.09	4	1.40	.02	.08	<2	3
5400W 150N	2	7	27	105	<.3	6	4	1501	1.37	9	<5	<2	8	10	<.2	3	<2	22	.10	.005	23	8	.17	291	.05	<3	.66	.01	.06	<2	13
5400W 100N	<1	13	8	43	<.3	17	7	299	1.85	7	<5	<2	3	11	<.2	<2	<2	40	.17	.017	14	20	.40	71	.08	<3	1.29	.01	.06	<2	3
5400W 50N	<1	13	9	51	<.3	15	7	336	2.09	6	<5	<2	<2	13	.2	<2	<2	45	.18	.028	18	21	.44	129	.07	<3	1.47	.02	.08	<2	2
5400W 0N	1	26	17	81	<.3	11	12	1011	3.18	<2	<5	<2	<2	21	<.2	2	2	93	.26	.060	11	22	.73	482	.10	<3	1.81	.02	.19	<2	1
5350W 1500N	1	138	105	81	.8	13	10	608	2.49	6	<5	<2	7	26	.5	3	18	46	.58	.024	33	20	.58	282	.06	<3	1.46	.02	.10	<2	4
5350W 1450N	2	98	26	68	.6	18	12	1152	2.96	11	<5	<2	4	43	<.2	3	16	62	1.03	.066	43	30	.62	497	.05	<3	2.32	.02	.12	<2	3
5350W 1400N	1	28	15	70	.3	17	9	467	2.50	5	<5	<2	5	41	.4	<2	11	56	.57	.058	29	25	.57	155	.09	<3	1.57	.02	.09	<2	2
5350W 1350N	1	17	13	59	<.3	20	10	533	2.95	10	<5	<2	2	15	<.2	<2	4	61	.21	.033	14	31	.59	129	.09	<3	2.39	.02	.11	<2	4
5350W 1300N	1	14	7	45	<.3	18	9	283	2.57	7	<5	<2	4	18	<.2	<2	4	55	.25	.025	13	25	.48	108	.10	<3	2.05	.02	.07	<2	11
5350W 1250N	1	18	13	71	<.3	7	9	744	3.39	4	<5	<2	4	34	<.2	<2	11	76	.65	.029	17	19	.94	279	.09	<3	2.42	.04	.13	<2	1
5350W 1150N	1	18	12	61	<.3	14	10	529	3.33	15	<5	<2	6	25	<.2	<2	6	67	.37	.030	27	23	.68	274	.08	3	1.98	.02	.16	<2	3
5350W 1100N	1	10	10	73	<.3	14	8	657	2.19	23	<5	<2	3	20	.2	<2	2	47	.30	.021	11	20	.53	124	.08	<3	1.49	.02	.11	<2	31
RE 5350W 1100N	<1	11	11	74	<.3	12	8	676	2.23	23	<5	<2	3	22	<.2	<2	4	49	.31	.024	11	21	.54	124	.08	<3	1.54	.02	.12	<2	3
5350W 750N	1	43	65	119	.6	14	8	750	2.99	51	<5	<2	4	13	.9	11	<2	57	.17	.023	18	26	.45	107	.08	<3	1.47	.02	.09	<2	6
5350W 700N	1	19	28	86	<.3	13	8	843	2.62	27	<5	<2	2	17	<.2	<2	2	56	.22	.043	21	26	.58	150	.07	<3	1.78	.01	.11	<2	4
5350W 650N	1	14	29	82	<.3	13	7	811	2.39	26	<5	<2	3	13	.4	<2	2	51	.17	.029	16	23	.46	124	.08	3	1.46	.02	.11	<2	3
5350W 600N	2	19	37	95	<.3	17	9	729	3.26	25	<5	<2	3	15	<.2	2	5	68	.17	.032	18	31	.62	119	.07	3	2.34	.01	.14	<2	3
5350W 550N	1	15	29	79	<.3	13	6	559	2.63	5	<5	<2	<2	13	.3	<2	2	62	.15	.027	15	26	.39	78	.06	<3	1.40	.01	.07	<2	1
5350W 500N	1	14	20	57	<.3	14	6	311	2.56	6	<5	<2	2	13	.2	<2	4	64	.17	.029	16	27	.43	81	.10	<3	1.62	.02	.07	<2	1
5350W 450N	1	9	12	44	<.3	10	5	453	2.16	4	<5	<2	4	11	<.2	<2	4	48	.19	.022	19	21	.38	69	.08	<3	1.10	.02	.09	<2	1
5350W 400N	1	19	16	75	<.3	23	9	443	2.89	9	<5	<2	4	16	.3	2	3	68	.22	.033	16	38	.70	121	.11	<3	2.36	.02	.09	<2	2
5350W 350N	1	8	24	74	<.3	10	6	725	1.82	16	<5	<2	8	12	.3	3	3	28	.11	.021	23	11	.24	161	.03	<3	1.02	.01	.14	<2	<1
5350W 300N	2	13	19	68	<.3	13	5	451	2.48	11	<5	<2	2	12	<.2	2	5	56	.14	.033	17	23	.32	80	.07	3	1.34	.02	.07	<2	4
STANDARD C2/AU-S	18	55	43	137	5.8	74	34	1098	3.67	36	16	7	33	49	18.6	16	24	69	.55	.093	38	62	.95	194	.09	27	1.92	.06	.14	15	47

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au <sup>#</sup> ppb
5350W 250N	2	21	169	156	<.3	7	5	1016	2.08	26	<5	<2	6	10	.6	4	2	33	.09	.026	27	16	.24	151	.03	<3	1.03	.01	.07	<2	2
5350W 200N	1	13	149	186	<.3	6	3	646	1.67	6	<5	<2	7	9	.4	3	<2	22	.06	.020	28	11	.19	89	.03	<3	.99	.01	.09	<2	24
5350W 150N	1	13	41	81	<.3	11	6	472	2.19	8	<5	<2	3	11	.3	<2	2	47	.16	.019	18	21	.38	91	.07	<3	1.43	.02	.08	<2	9
5350W 100N	2	28	50	118	<.3	14	9	812	2.78	7	<5	<2	4	20	.4	3	<2	54	.22	.037	34	28	.64	287	.06	<3	2.30	.02	.18	<2	2
5350W 50N	2	34	76	80	<.3	18	9	791	2.90	5	<5	<2	4	16	.5	6	3	71	.29	.058	19	35	.70	94	.07	<3	1.48	.02	.11	2	14
5350W 0N	2	17	26	78	<.3	11	12	1395	2.97	12	<5	<2	2	17	<.2	4	2	59	.26	.045	17	21	.53	230	.04	<3	1.52	.02	.12	<2	1
5250W 1500N	3	19	19	46	<.3	7	7	389	2.72	6	<5	<2	3	20	<.2	<2	7	60	.25	.020	14	16	.28	98	.06	<3	1.25	.02	.07	<2	4
5250W 1450N	2	12	10	43	<.3	10	6	241	2.64	7	<5	<2	2	15	<.2	<2	69	.20	.015	11	22	.43	68	.10	<3	1.81	.02	.08	<2	2	
5250W 1400N	3	31	19	69	<.3	12	13	708	3.86	5	<5	<2	5	20	<.2	<2	3	69	.27	.024	20	21	.48	188	.05	<3	2.10	.02	.10	<2	2
5250W 1350N	4	134	41	106	.3	8	19	1692	4.26	64	<5	<2	6	18	<.2	10	12	54	.23	.014	22	14	.32	335	.04	<3	1.09	.02	.08	<2	2
5250W 1300N	2	23	24	62	<.3	17	9	386	3.10	8	<5	<2	5	14	.3	3	3	64	.18	.026	15	32	.52	111	.09	<3	2.14	.02	.08	2	11
5250W 1250N	4	49	61	275	.3	13	18	1173	4.92	<2	<5	<2	4	13	.7	2	10	103	.14	.041	13	40	.86	157	.05	5	3.71	.02	.15	2	1
5250W 1200N	1	26	33	119	.7	17	12	703	3.00	7	<5	<2	3	16	.8	<2	<2	61	.20	.034	13	27	.66	139	.10	3	3.14	.02	.13	2	3
5250W 1150N	3	21	13	83	<.3	14	15	869	4.03	15	<5	<2	6	26	.2	2	<2	81	.41	.028	38	27	.86	351	.10	<3	2.53	.04	.23	<2	1
5250W 900N	1	18	17	65	<.3	10	10	501	2.66	9	<5	<2	4	19	.4	3	<2	62	.31	.042	15	28	.55	143	.09	<3	1.80	.02	.12	<2	4
5250W 800N	1	30	25	83	.3	10	7	621	2.46	52	<5	<2	2	18	.2	5	<2	51	.29	.024	15	20	.46	159	.07	<3	1.19	.02	.11	2	5
5250W 750N	3	32	136	159	.8	9	8	972	2.94	14	<5	<2	<2	17	.4	6	2	58	.24	.046	14	19	.30	162	.05	<3	.95	.02	.12	<2	4
5250W 700N	1	16	28	74	<.3	8	6	423	2.45	26	<5	<2	2	15	.3	2	2	53	.20	.037	16	22	.39	98	.06	<3	1.31	.01	.09	<2	7
5250W 650N	11	60	196	209	1.5	14	11	1619	3.67	18	5	<2	2	24	.7	8	6	62	.32	.061	20	26	.41	525	.04	3	1.51	.02	.11	<2	14
5250W 600N	2	13	39	78	<.3	7	6	848	2.26	62	<5	<2	4	14	<.2	3	5	40	.22	.028	18	17	.31	152	.05	<3	.90	.02	.08	3	3
RE 5250W 600N	2	15	40	78	<.3	9	5	889	2.28	67	<5	<2	4	15	.3	3	<2	41	.22	.029	20	17	.31	162	.05	<3	.89	.02	.08	<2	7
5250W 550N	3	39	143	160	1.0	7	5	1466	2.25	19	<5	<2	7	18	.5	9	2	40	.24	.032	22	18	.32	310	.05	<3	.99	.01	.09	<2	13
5250W 500N	2	16	41	78	<.3	15	6	436	2.51	10	<5	<2	2	12	<.2	<2	<2	58	.13	.026	14	25	.38	126	.08	<3	1.35	.01	.08	<2	7
5250W 450N	2	15	92	120	.4	4	3	316	1.08	6	<5	<2	8	10	.3	6	2	10	.05	.013	24	6	.10	84	.01	<3	.60	.02	.11	<2	6
5250W 400N	2	15	23	67	<.3	12	6	530	2.35	7	<5	<2	<2	16	<.2	<2	<2	57	.18	.044	12	24	.41	128	.06	4	1.45	.02	.09	<2	2
5250W 350N	1	15	38	132	<.3	11	9	862	3.02	23	<5	<2	3	18	<.2	3	<2	63	.21	.036	22	24	.72	270	.06	<3	2.57	.02	.21	<2	4
5250W 300N	3	14	48	105	.3	9	4	259	2.29	44	<5	<2	6	13	.4	6	3	48	.15	.019	17	19	.32	87	.09	3	1.12	.01	.10	<2	4
5250W 250N	4	24	83	148	1.0	8	7	1134	2.48	19	<5	<2	10	15	.6	19	8	39	.24	.035	28	16	.25	338	.05	<3	.86	.01	.09	<2	7
5250W 200N	1	16	25	52	<.3	12	5	346	2.39	9	<5	<2	2	10	<.2	2	4	45	.16	.034	14	27	.40	63	.09	3	1.49	.01	.09	<2	11
5250W 150N	3	37	90	161	<.3	15	10	1172	3.08	13	<5	<2	2	23	.8	4	2	62	.26	.050	29	33	.68	377	.06	<3	2.61	.01	.17	<2	3
5250W 100N	6	33	100	156	.9	14	14	1138	4.41	69	<5	<2	<2	28	.5	20	4	75	.33	.088	24	28	.47	292	.05	<3	1.80	.02	.11	<2	13
5250W 50N	5	23	25	137	<.3	13	19	782	4.00	61	<5	<2	4	37	.7	4	2	90	.50	.039	16	29	1.11	223	.07	<3	2.45	.09	.50	<2	2
5250W 0N	21	32	29	85	<.3	11	10	1585	3.20	7	<5	<2	<2	12	<.2	<2	<2	54	.18	.032	23	20	.48	136	.04	<3	1.38	.02	.07	<2	4
5100W 1500N	1	22	10	77	.3	11	7	587	2.40	2	<5	<2	<2	48	.5	<2	<2	57	.99	.071	23	26	.68	251	.08	<3	1.98	.03	.12	<2	2
5100W 1450N	1	16	10	64	<.3	15	9	516	2.77	3	<5	<2	4	25	.3	<2	<2	62	.38	.032	20	25	.70	171	.11	<3	2.11	.03	.13	<2	1
STANDARD C2/AU-S	20	57	34	140	6.2	68	36	1137	3.81	39	20	7	34	51	19.3	18	18	71	.55	.087	39	63	.95	192	.09	29	1.97	.06	.15	14	52

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	AU* ppb
1100W 1250N	1	65	21	91	.9	15	8	487	2.63	8	<5	<2	4	23	<.2	3	6	57	.32	.031	20	26	.72	328	.09	<3	2.13	.03	.08	<2	2
1100W 1150N	2	49	56	128	6.9	12	7	558	3.02	34	<5	<2	<2	33	.7	14	5	75	.47	.075	15	22	.45	407	.04	<3	2.07	.02	.10	<2	3
1100W 1100N	<1	13	13	52	<.3	14	7	507	2.28	18	<5	<2	4	19	.2	<2	<2	45	.33	.045	16	20	.50	170	.07	<3	1.51	.02	.10	<2	2
1100W 1050N	<1	14	11	41	<.3	14	8	391	2.00	8	<5	<2	3	13	<.2	<2	3	42	.22	.033	13	21	.44	85	.08	<3	1.50	.02	.07	2	3
1100W 1000N	2	50	33	59	1.0	13	7	338	3.01	15	<5	<2	4	19	<.2	5	5	63	.26	.019	15	22	.53	141	.07	3	1.83	.02	.08	<2	7
1100W 950N	1	22	20	53	.3	13	7	300	2.92	14	<5	<2	2	13	.2	2	3	64	.16	.020	14	23	.44	106	.08	<3	1.80	.01	.07	2	15
1100W 900N	1	32	30	67	.3	17	9	449	3.07	13	<5	<2	2	13	.2	<2	4	56	.21	.037	13	25	.53	92	.07	<3	1.99	.02	.09	<2	2
1100W 850N	2	32	58	107	<.3	21	12	893	3.63	14	<5	<2	5	14	<.2	<2	4	71	.18	.036	16	34	.59	161	.08	<3	3.10	.01	.12	<2	6
1100W 750N	2	40	60	130	1.0	14	12	1027	3.29	24	<5	<2	<2	32	.9	7	5	61	.60	.101	23	27	.57	489	.02	<3	1.89	.01	.10	<2	8
1100W 700N	1	31	61	130	.5	13	11	931	3.19	12	<5	<2	2	31	.6	2	<2	65	.67	.052	19	22	.81	318	.04	3	2.13	.01	.13	<2	3
1100W 650N	1	27	51	126	.3	13	10	713	2.78	9	<5	<2	4	37	.7	3	<2	56	.35	.033	16	21	.79	274	.07	<3	2.28	.03	.14	<2	20
1100W 600N	1	24	65	135	.8	11	10	1034	3.36	44	<5	<2	2	32	.2	4	4	62	.80	.053	24	20	.77	337	.03	3	2.36	.02	.14	<2	5
1100W 500N	4	67	71	115	.8	16	8	578	2.39	35	<5	<2	5	15	.5	11	10	40	.21	.028	17	19	.38	154	.06	4	1.11	.01	.12	<2	5
1100W 450N	3	25	84	144	<.3	15	10	1040	2.94	13	<5	<2	3	21	.7	10	5	54	.29	.036	19	24	.64	296	.05	<3	1.96	.02	.14	<2	4
1100W 400N	2	28	48	84	.6	13	7	431	2.46	12	<5	<2	<2	20	.2	3	3	46	.33	.040	14	20	.43	193	.05	<3	1.48	.01	.09	<2	4
1100W 350N	2	37	62	98	1.2	12	6	687	2.30	7	<5	<2	<2	25	1.1	2	3	49	.36	.047	25	16	.32	273	.04	<3	1.55	.02	.08	2	3
RE 5100W 350N	2	40	60	99	1.3	9	7	689	2.31	7	<5	<2	<2	25	1.1	2	3	48	.36	.049	26	16	.32	280	.04	3	1.58	.02	.08	<2	5
1100W 300N	2	20	78	105	.4	14	7	564	2.52	12	<5	<2	3	15	.5	2	4	49	.22	.023	11	22	.46	105	.07	<3	1.52	.02	.09	<2	3
1100W 250N	2	37	92	126	.3	14	6	632	2.23	16	<5	<2	4	18	1.0	4	4	43	.30	.040	14	19	.43	190	.07	<3	1.08	.02	.09	2	5
1100W 200N	2	17	41	91	.4	8	8	589	2.32	12	<5	<2	2	23	.4	3	4	48	.35	.031	15	17	.52	314	.05	3	1.34	.01	.11	<2	7
1100W 150N	1	11	55	91	<.3	11	7	524	2.26	7	<5	<2	2	17	1.0	3	3	48	.28	.042	13	16	.40	118	.06	<3	1.01	.02	.10	<2	2
1100W 50N	2	19	29	84	<.3	16	9	703	2.72	7	<5	<2	2	25	<.2	2	3	62	.41	.037	16	22	.71	205	.07	<3	1.97	.02	.12	<2	5
1100W 0N	2	15	14	54	<.3	11	7	380	2.62	6	<5	<2	<2	20	<.2	<2	3	68	.23	.032	12	17	.48	109	.08	<3	1.40	.02	.08	<2	1
STANDARD C2/AU-S	19	55	39	135	5.9	74	34	1094	3.68	42	18	7	32	48	19.7	17	21	67	.54	.088	37	59	.95	196	.07	26	1.87	.06	.13	13	50

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

In Ag      <.3 = 0.2

#17

093543

# B.Y.G. NATURAL RESOURCES INC.

MT. NANSEN PROJECT, YUKON  
NISLING LK. & BUFFALO GRIDS

## GRID & CLAIMS LOCATION MAP

Whitehorse M.D. NAD 27 NTS 115 1/3 & 115 H/14  
SCALE IN METRES



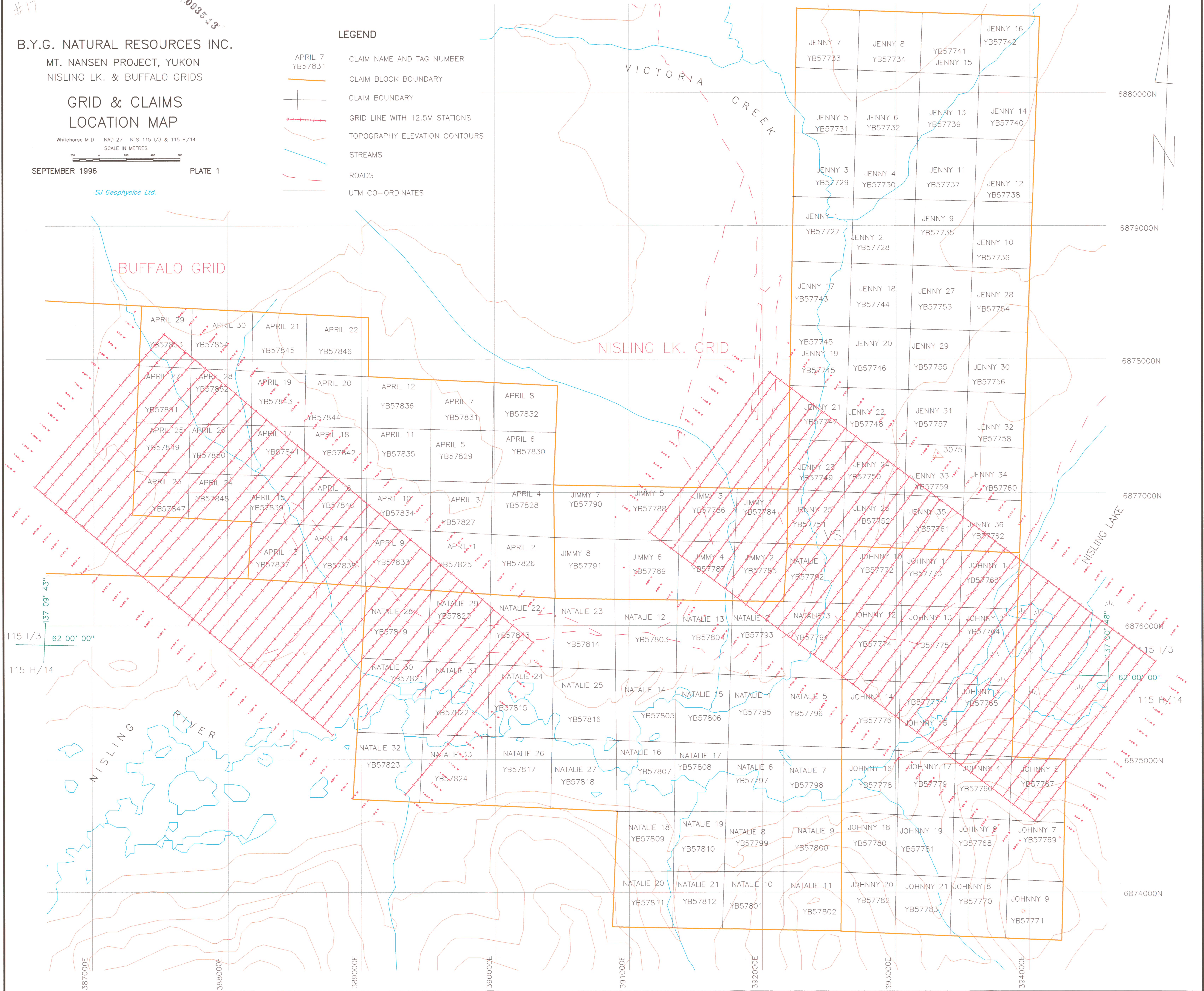
SEPTEMBER 1996

PLATE 1

SJ Geophysics Ltd.

### LEGEND

- APRIL 7  
YB57831
- CLAIM NAME AND TAG NUMBER
- CLAIM BLOCK BOUNDARY
- CLAIM BOUNDARY
- GRID LINE WITH 12.5M STATIONS
- TOPOGRAPHY ELEVATION CONTOURS
- STREAMS
- ROADS
- UTM CO-ORDINATES



B.Y.G. NATURAL RESOURCES INC.  
MT. NANSEN PROJECT, YUKON

KLAZA GRIDS  
GRID & CLAIMS  
LOCATION MAP

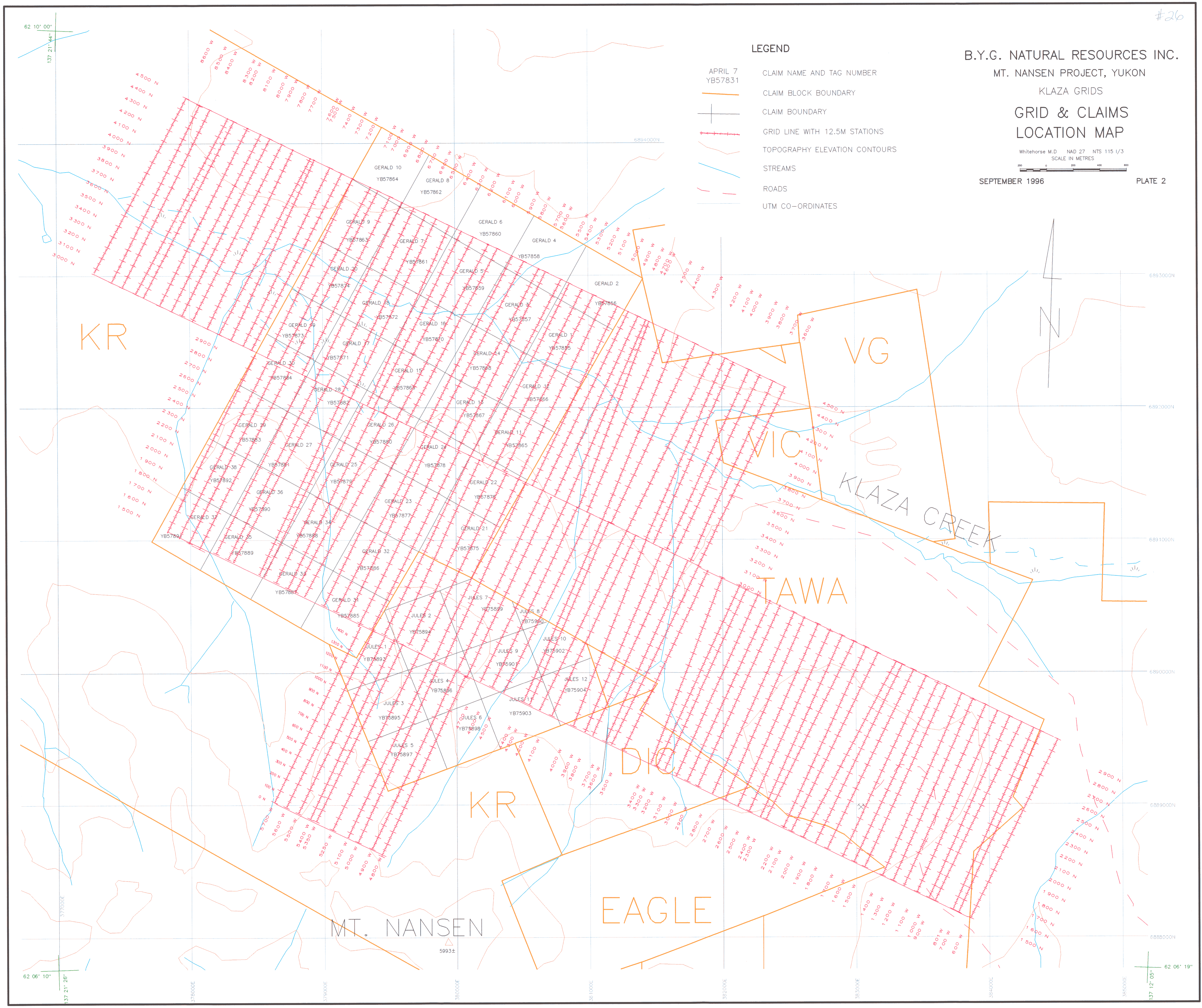
Whitehorse M.D. NAD 27 NTS 115 1/3  
SCALE IN METRES

SEPTEMBER 1996

PLATE 2

LEGEND

- APRIL 7  
YB57831
- CLAIM NAME AND TAG NUMBER
- CLAIM BLOCK BOUNDARY
- CLAIM BOUNDARY
- GRID LINE WITH 12.5M STATIONS
- TOPOGRAPHY ELEVATION CONTOURS
- STREAMS
- ROADS
- UTM CO-ORDINATES



62 10' 00"

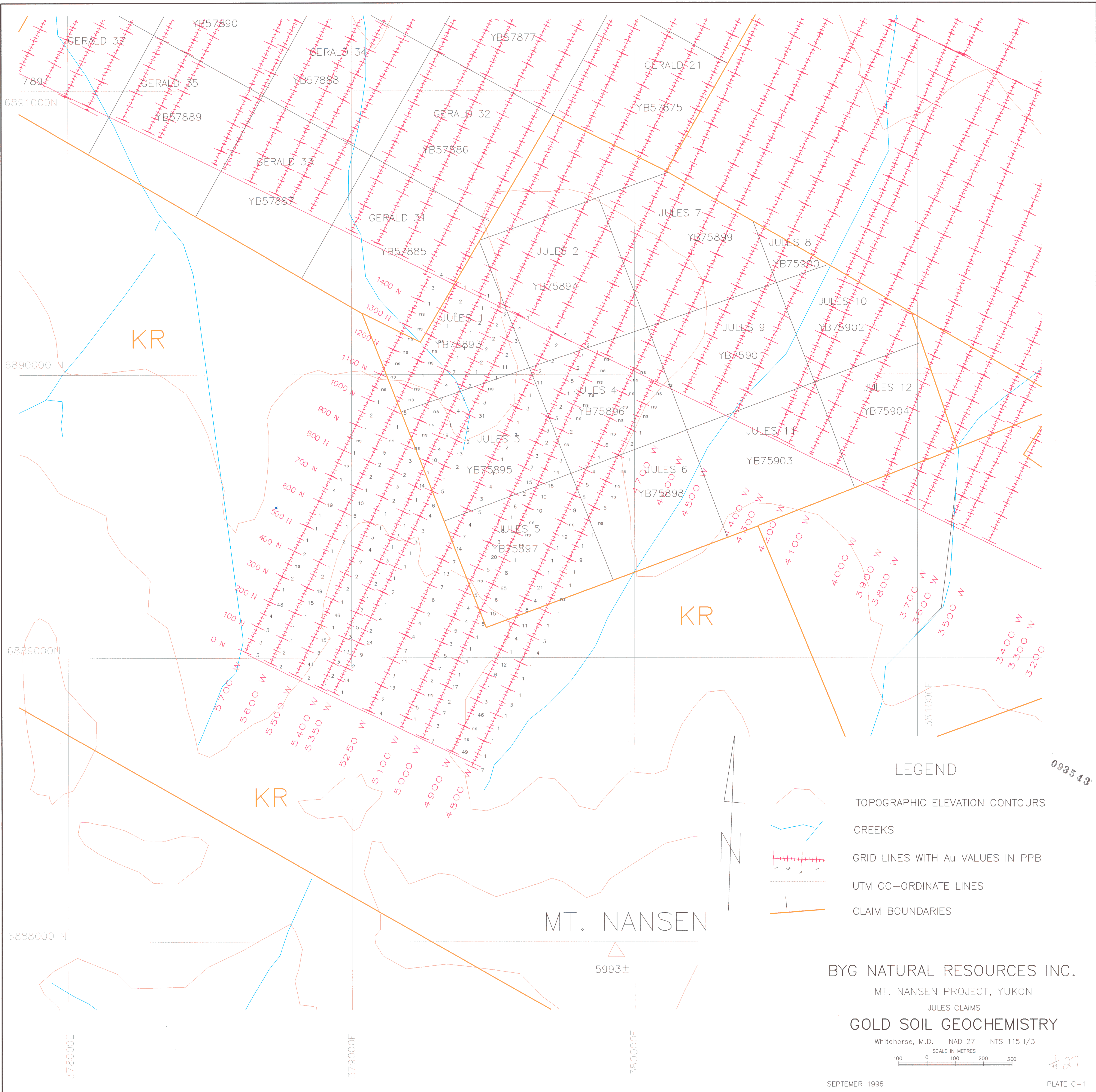
137 21' 44"

62 06' 10"






137 21' 26"

62 06' 19"

137 12' 05"



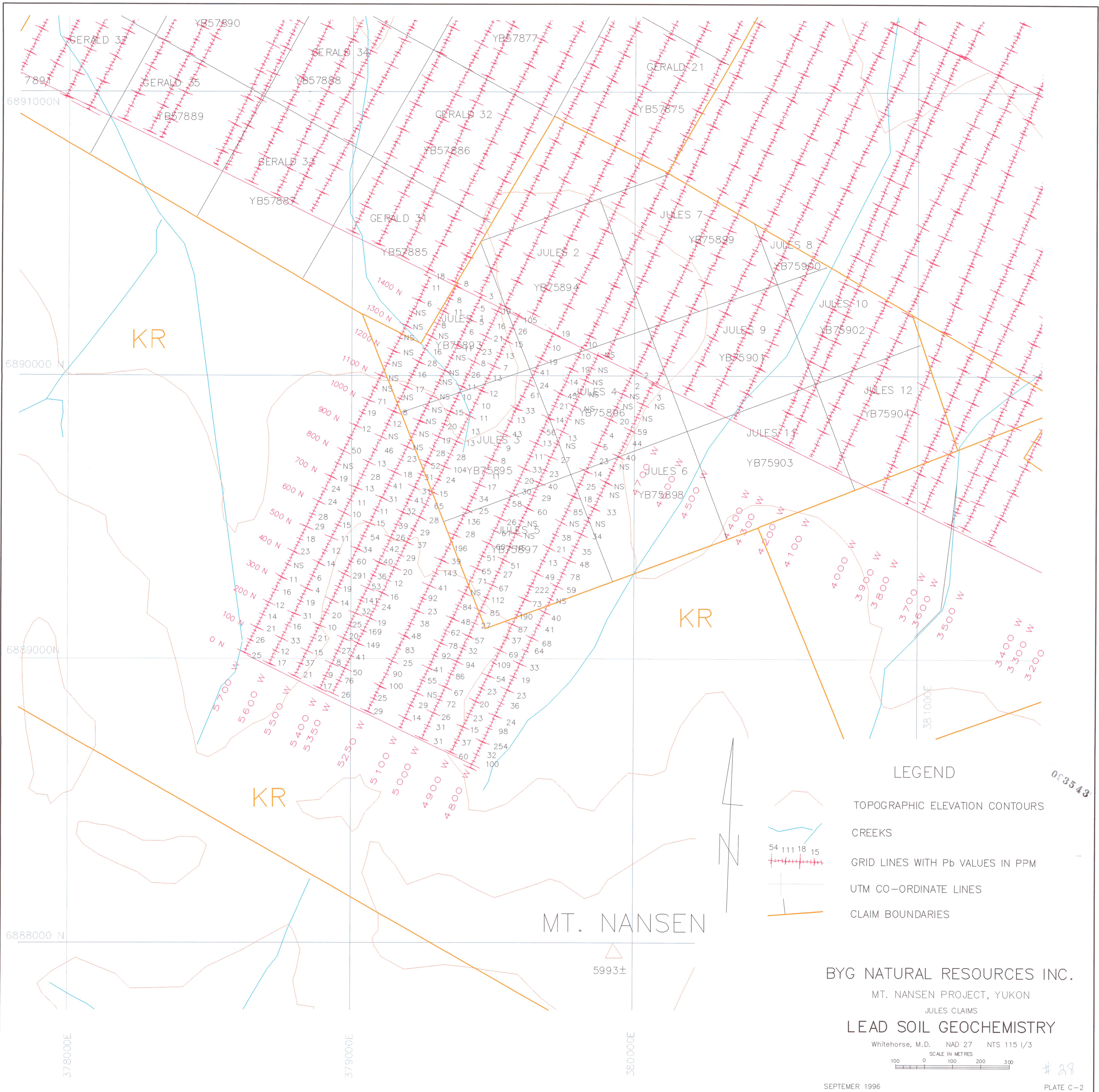
LEGEND

-  TOPOGRAPHIC ELEVATION CONTOURS
-  CREEKS
-  GRID LINES WITH Au VALUES IN PPB
-  UTM CO-ORDINATE LINES
-  CLAIM BOUNDARIES






BYG NATURAL RESOURCES INC.  
 MT. NANSEN PROJECT, YUKON  
 JULES CLAIMS  
 GOLD SOIL GEOCHEMISTRY

Whitehorse, M.D. NAD 27 NTS 115 I/3  
 SCALE IN METRES  
 100 0 100 200 300

#27

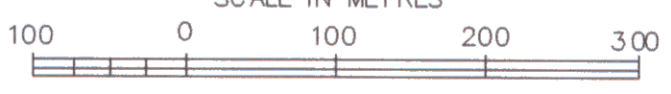


LEGEND

-  TOPOGRAPHIC ELEVATION CONTOURS
-  CREEKS
-  GRID LINES WITH Pb VALUES IN PPM
-  UTM CO-ORDINATE LINES
-  CLAIM BOUNDARIES

BYG NATURAL RESOURCES INC.  
 MT. NANSEN PROJECT, YUKON  
 JULES CLAIMS  
**LEAD SOIL GEOCHEMISTRY**

Whitehorse, M.D. NAD 27 NTS 115 1/3  
 SCALE IN METRES



SEPTEMBER 1996

PLATE C-2

083543

# 28

**Addendum 1**

**1996 ASSESSMENT REPORT**

**MAGNETOMETER & VLF-EM  
SURVEY**

on the

**Jenny 1-36, Johnny 1-21, Jimmy 1-8, Natalie 1-33,  
April 1-30, Claims  
BUFFALO GRID,**

Latitude 62°00' North  
Longitude 137°05' West

Whitehorse, Mining District,

N.T.S 115 I/3, H/14

for

**B.Y.G. NATURAL RESOURCES INC.**

110 Industrial Road  
Whitehorse, Yukon  
Y1A 2T1  
Canada

Survey by

**SJ GEOPHYSICS LTD.**

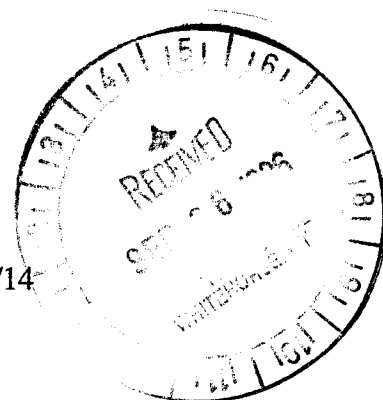
11762 - 94<sup>th</sup> Avenue  
Delta, British Columbia  
Canada V4C 3R7

Report by

Zoran Dujakovic, Geophysicist  
and  
Syd Visser, P. Geo

S.J.V. Consultants Ltd.

April 5, 1996 to May 30, 1996



**0935 43**

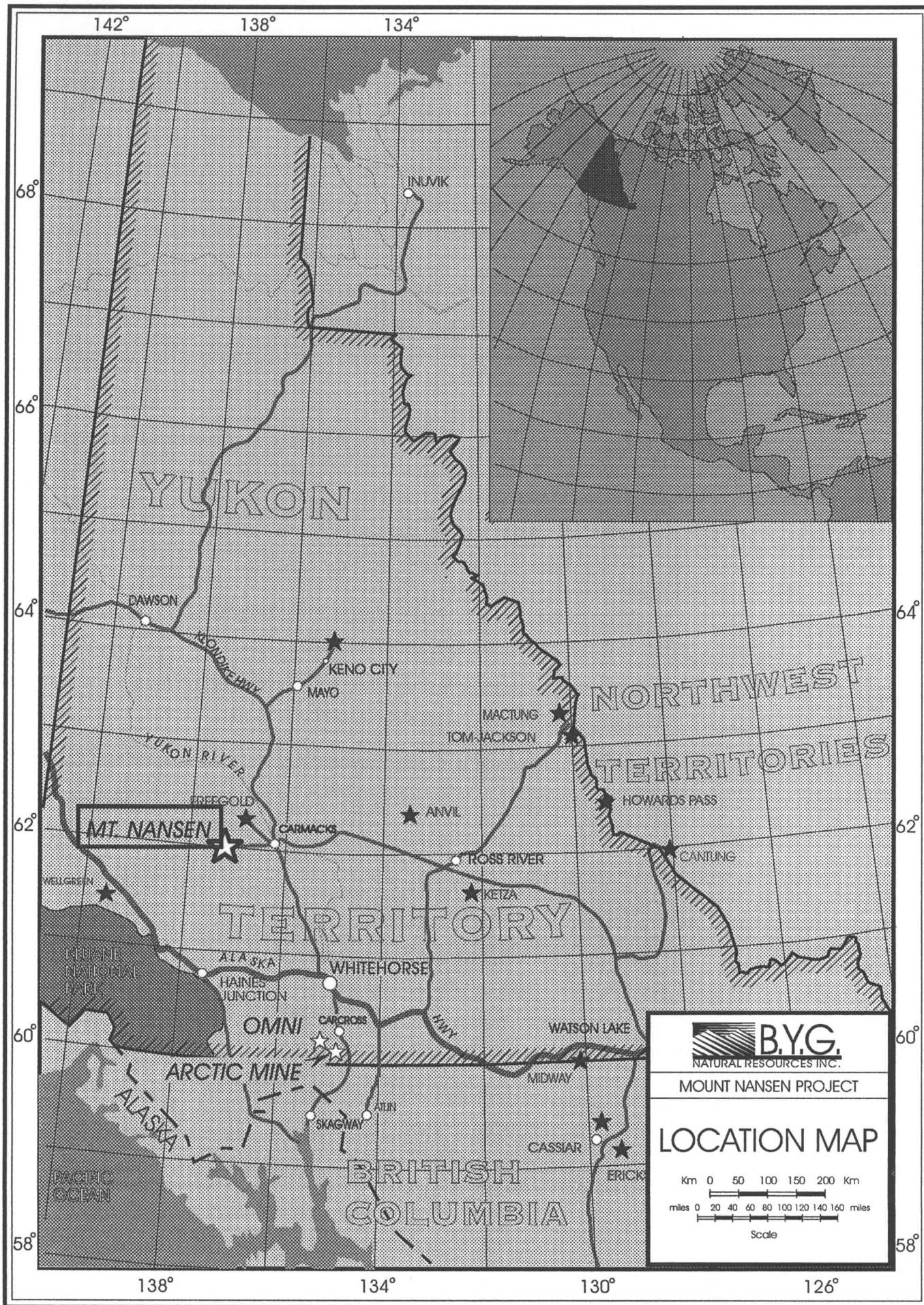


Figure 1: Location Map

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**LIST OF CLAIMS AND TAG NUMBERS**

<b>CLAIM NAME</b>		<b>TAG NUMBER</b>	<b>CLAIM NAME</b>		<b>TAG NUMBER</b>
JENNY	1	YB57727	JOHNNY	7	YB57769
JENNY	2	YB57728	JOHNNY	8	YB57770
JENNY	3	YB57729	JOHNNY	9	YB57771
JENNY	4	YB57730	JOHNNY	10	YB57772
JENNY	5	YB57731	JOHNNY	11	YB57773
JENNY	6	YB57732	JOHNNY	12	YB57774
JENNY	7	YB57733	JOHNNY	13	YB57775
JENNY	8	YB57734	JOHNNY	14	YB57776
JENNY	9	YB57735	JOHNNY	15	YB57777
JENNY	10	YB57736	JOHNNY	16	YB57778
JENNY	11	YB57737	JOHNNY	17	YB57779
JENNY	12	YB57738	JOHNNY	18	YB57780
JENNY	13	YB57739	JOHNNY	19	YB57781
JENNY	14	YB57740	JOHNNY	20	YB57782
JENNY	15	YB57741	JOHNNY	21	YB57783
JENNY	16	YB57742	JIMMY	1	YB57784
JENNY	17	YB57743	JIMMY	2	YB57785
JENNY	18	YB57744	JIMMY	3	YB57786
JENNY	19	YB57745	JIMMY	4	YB57787
JENNY	20	YB57746	JIMMY	5	YB57788
JENNY	21	YB57747	JIMMY	6	YB57789
JENNY	22	YB57748	JIMMY	7	YB57790
JENNY	23	YB57749	JIMMY	8	YB57791
JENNY	24	YB57750	NATALIE	1	YB57792
JENNY	25	YB57751	NATALIE	2	YB57793
JENNY	26	YB57752	NATALIE	3	YB57794
JENNY	27	YB57753	NATALIE	4	YB57795
JENNY	28	YB57754	NATALIE	5	YB57796
JENNY	29	YB57755	NATALIE	6	YB57797
JENNY	30	YB57756	NATALIE	7	YB57798
JENNY	31	YB57757	NATALIE	8	YB57799
JENNY	32	YB57758	NATALIE	9	YB57800
JENNY	33	YB57759	NATALIE	10	YB57801
JENNY	34	YB57760	NATALIE	11	YB57802
JENNY	35	YB57761	NATALIE	12	YB57803
JENNY	36	YB57762	NATALIE	13	YB57804
JOHNNY	1	YB57763	NATALIE	14	YB57805
JOHNNY	2	YB57764	NATALIE	15	YB57806
JOHNNY	3	YB57765	NATALIE	16	YB57807
JOHNNY	4	YB57766	NATALIE	17	YB57808
JOHNNY	5	YB57767	NATALIE	18	YB57809
JOHNNY	6	YB57768	NATALIE	19	YB57810

*Mt. Nansen Property. Buffalo grid, Magnetometer & VLF-EM Survey, 1996*

<b>CLAIM NAME</b>		<b>TAG NUMBER</b>	<b>CLAIM NAME</b>		<b>TAG NUMBER</b>
NATALIE	20	YB57811	APRIL	1	YB57825
NATALIE	21	YB57812	APRIL	2	YB57826
NATALIE	22	YB57813	APRIL	3	YB57827
NATALIE	23	YB57814	APRIL	4	YB57828
NATALIE	24	YB57815	APRIL	5	YB57829
NATALIE	25	YB57816	APRIL	6	YB57830
NATALIE	26	YB57817	APRIL	7	YB57831
NATALIE	27	YB57818	APRIL	8	YB57832
NATALIE	28	YB57819	APRIL	9	YB57833
NATALIE	29	YB57820	APRIL	10	YB57834
NATALIE	30	YB57821	APRIL	11	YB57835
NATALIE	31	YB57822	APRIL	12	YB57836
NATALIE	32	YB57823	APRIL	13	YB57837
NATALIE	33	YB57824	APRIL	14	YB57838
			APRIL	15	YB57839
			APRIL	16	YB57840
			APRIL	17	YB57841
			APRIL	18	YB57842
			APRIL	19	YB57843
			APRIL	20	YB57844
			APRIL	21	YB57845
			APRIL	22	YB57846
			APRIL	23	YB57847
			APRIL	24	YB57848
			APRIL	25	YB57849
			APRIL	26	YB57850
			APRIL	27	YB57851
			APRIL	28	YB57852
			APRIL	29	YB57853
			APRIL	30	YB57854

## **INTRODUCTION**

Magnetic and very low frequency electromagnetic (VLF-EM) surveys were completed on the Mt. Nansen property, Buffalo Grid, for B.Y.G. Natural Resources Inc. by SJ Geophysics Ltd. The Mt. Nansen property is located about 60km west of Carmacks (Figure 1), Yukon in the Whitehorse Mining District, NTS 115 I/3.

The purpose of the survey was to aid in the mapping of local geology, search for conductive mineralized zones and to follow up geochemical anomalies.

## **CLAIMS**

The claims (Plate 1) are located in the Whitehorse Mining District and are held by B.Y.G. Natural Resources Inc. Co-ordinates of the claims are latitude 62°05' north and longitude 137°08' west. Claims data are summarised as follows:

## **CLAIMS LOCATION AND ACCESS**

The property can be reached by vehicle from Whitehorse by travelling north 180 km on Highway #2 to Carmacks, and then 60 km west on a gravel access road to the mine. In general four-wheel drive vehicles are not required on a gravel access road but they are required to access the property during the winter period.

## **CLIMATE**

The area is quite dry with average precipitation of about 25 cm, most of which falls as rain in the summer months. Late winter snow-pack is normally 30 to 40 cm deep. Average monthly temperatures range from -15°C in January to 15°C in July.

In general, outside activities such as construction can be conducted readily from April to early November.

## **HISTORY**

In 1943 prospectors Brown and McDade discovered lode deposit on Mount Nansen. Leitch Gold Mines forms Brown McDade Mines. Ltd.

In 1947 H. Heustis stacked gold-silver veins on Mt. Nansen. Mt. Nansen Mines Ltd. carried out surface exploration between 1962 and 1964, and in 1965, underground exploration began.

Between 1965 and 1967 two shafts were driven, one at the 1250 m level and one at the 1309 m level.

In 1968 and 1969 Heustis and Webber veins were mined at a rate of 65-90 tonnes per day. In 1969 without cyanide circuit, 40% of the gold reports to the tailings ponds and production ceased.

In 1976 the mill re-opened again with excellent grades from Heustis and mine operated for 10 months.

In 1984 B.Y.G. acquired the Mt. Nansen property and options to Chevron who conducted extensive exploration and discovered Brown-McDade oxide deposit.

In 1986 11 diamond drill holes totalling 576 m were completed. Seven holes encountered significant gold and silver values in the Flex vein zone.

In 1988 exploration consisted of road construction, bulldozer and excavator trenching, stripping, rehabilitation of underground workings, and 5397 m of diamond drilling in 85 holes. Most of the drilling was done on the Brown-McDade zone.

In 1994 12 diamond drill holes totalling 1000 m were completed in the Flex, Heustis North and Brown-McDade sulphide zones.

## **GEOLOGY AND MINERALIZATION**

The Mt. Nansen is situated within the eastern part of the Yukon Crystalline Terrain, which lies between the Coast Plutonic Complex to the southwest and the Yukon Cataclastic Terrain to the northwest.

The southern portion of the property is underlain by deformed, medium to high grade metamorphic rocks. These include interlayered quartz-feldspar-chlorite gneiss, quartzite, amphibolite and augen gneiss. Foliation within these rocks strikes northeast and dips steeply to the northwest.

The northeastern portion of property is underlain by Early Cretaceous coarse-grained granodiorite with lesser quartz diorite and quartz monzonite. These rocks may contain up to 25% stubby amphibole and are locally foliated. Coeval pegmatite and aplite dykes are common locally

Two types of faults occur on the property. The first set strikes north-northwest and dips between 50° and 70° to the southwest. These faults are parallel to the veins and locally mineralized. The second set of faults strikes northeast and dips subvertically. These

faults vary in their sense and magnitudes of displacement. Locally, they cut the mineralized zones.

Gold and silver occur in a number of quartz-sulphide vein zones which cut Palaeozoic metamorphic rocks, Cretaceous quartz monzonite stocks, feldspar porphyry dykes and plugs, andesitic flows and pyroclastic rocks. The vein strikes northwest and dips from 80° NE to 45° SW. The veins comprise quartz lenses with arsenopyrite, pyrite, sphalerite, galena, tetrahedrite and stibnite. Depth of total oxidation ranges from 0 to 100 m depending on the type of mineralization and orientation of the vein.

## **FIELD WORK AND INSTRUMENTATION**

Magnetometer & VLF-EM surveys were completed from April 20 to May 06, 1996, comprising 16 data acquisition days and 1 mob/demob day. Data acquisition, processing and field presentation was performed by Zoran Dujakovic (Geophysicist). The Buffalo grid consisted of flagged, compass and hip-chain lines. Surveying was performed at 12.5 metre intervals along the 100 m spaced lines, for a total of 51.5 kilometres. The lines in the south corner of the grid, between lines 0N and 800N, were shortened due to a deep river.

An EDA OMNI PLUS combined proton precession magnetometer and a VLF-EM system were used for data acquisition and an EDA OMNI IV proton precession magnetometer was used as a base station which recorded data in 30 seconds intervals. The VLF-EM survey used the signals from Jim Creek (Seattle 24.8 kHz, NLK) and Cutler (24.0 kHz, NAA). The Cutler transmitter is poorly orientated for east/west lines and was used primarily for confirmation of anomalies detected with the Jim Creek transmitter. The signal/noise from Cutler transmitter was very bad so the data from this station is not presented. The direction of VLF-EM surveying is positive to the east.

All data was downloaded to a computer in the evening. The data was processed as time permitted by the geophysicist. The data was plotted on an Bubble Jet printer.

The data was re-plotted on a 36 inch Ink Jet colour plotter in Vancouver for the final presentation and interpretation.

## **DATA PRESENTATION**

The magnetic, VLF-EM data, filtered VLF-EM data and compilation of the magnetic and VLF-EM data are presented on the following plates:

**TABLE 1 list of plates**

PLATE 1	GRID & CLAIMS LOCATION MAP	In Pocket
PLATE BG-1A	TOTAL FIELD MAGNETIC PROFILES	In Pocket
PLATE BG-1B	TOTAL FIELD MAGNETIC CONTOURS	In Pocket
PLATE BG-1C	TOTAL FIELD MAGNETIC COLOUR CONTOURS	In Pocket
PLATE BG-2A	VLF-EM PROFILES JIM CREEK, NLK 24.8 KHZ	In Pocket
PLATE BG-2B	VLF-EM FRASER FILTERED CONTOURS JIM CREEK, NLK 24.8 KHZ	In Pocket
PLATE BG-2C	VLF-EM FRASER FILTERED COLOUR CONTOURS JIM CREEK, NLK 24.8 KHZ	In Pocket
PLATE BG-3	COMPILATION MAP	In Pocket

Contour maps are presented as black and white line contours for the assessment reports and as solid colour for the client.

## INTERPRETATION

The interpretation is presented on the compilation map, Plate G3. Discussions regarding directions on the grid will be in terms of grid east, north, south, and west.

## MAGNETICS

The magnetic relief over the surveyed area is approximately 500 nT. There are four magnetic anomalies of interest labelled as M1, M2, M3 and M4. Magnetic anomaly M1 is located at the northern part of grid between lines 2600N and 3600N. This anomaly is characterised by high magnitude response at the northeastern part of the grid that steadily decreases to the northwest. Anomaly M1 may represent a different rock unit. Magnetic anomalies M2 and M3 may also represent a different rock unit. Anomaly M4 is located at the central part of the grid. This west-east trending anomaly may be represented by long and wide dyke. Anomaly M4 comprise a couple of narrow magnetic highs as shown on the compilation map This is probably caused by magnetic dykes or fault/shear zones containing magnetic mineralization. There is a narrow magnetic low striking northeast - southwest across the grid from approximately 150W on line 2900N to the 850W on line 600N. This low closely follows a creek suggesting that these magnetic

lows are related to structures and therefore a depletion of magnetic minerals. The remainder of magnetic anomalies are not discussed but and presented on the compilation map.

### **VLF-EM**

The VLF-EM survey has delineated numerous northwest-southeast and a couple of west-east trending anomalies shown on the compilation map as good, medium and weak conductors. The VLF-EM anomalies were determined only from Seattle data because the signal strength from Cutler was weak. The orientation of the signal from Cutler to the grid is also poor for northwest-southeast structures therefore this data is not presented.

The most prominent VLF-EM anomalies are well defined, good conductors, labelled V1 to V7.

Anomaly V1 is located at the western part of grid. Dip angle and quadrature responses indicate that conductive overburden can have a profound effect on the response. The source of this anomaly could be either massive sulphides, conductive fault or the combination of both. Anomaly V1 warrants further investigation to the west to fully delineate it.

Anomaly V2 is located at the western corner of the grid. The northwestern part of the anomaly is associated with a relative magnetic high and is slightly weaker.

Anomaly V3 is a good westerly trending anomaly, located at the central part of grid. The western part of V3 is sub-parallel to magnetic anomaly M4 and the eastern part is associated with M4.

Anomaly V4 could be a south-eastern part of anomaly V3. This anomaly may represent the edge of conductive block or fault.

Anomaly V5 as shown on the compilation map is a good anomaly with two sub-parallel conductors. These two westerly trending anomalies may be separate conductors or the conductive edges of a 100 to 150 metre wide structure. V5 is open to the east and warrants further investigation.

Anomaly V6 is a medium good conductor that may continue to the southeast. The southeastern part of this anomaly is associated with a magnetic high. The source of this anomaly could be either conductive fault or massive sulphides.

Anomaly V7 is slightly less prominent than the other medium or good anomalies. It is westerly trending anomaly, associated with a relative magnetic high and is open to the west. Anomaly V7 may represent lithological contacts, conductive fault or even massive sulphide.

The remainder of VLF-EM anomalies shown as medium and weak conductors are not discussed, but presented on the compilation map. These anomalies may represent resistive contacts or conductive faults.

## **RECOMMENDATIONS**

The geophysical data should be compiled with geological mapping and sampling to determine if more detail work or other geophysical techniques are required to enhance the geological mapping. If the results of the mag/VLF survey correlate well with the geology further interpretation of the geophysics with the geology is recommended.

The Buffalo grid should be extended to the west between line 2200N and 1500N to further delineate anomaly V1 and to the east between 1500N and 800N to fully delineate anomaly V5.

All VLF-EM good anomalies should be checked by other geophysical techniques such as Horizontal Loop EM(HLEM) before the diamond drilling program started.

## **CONCLUSION**

The magnetometer survey delineated four magnetic anomalies of interest as shown on the compilation map. Anomalies M1, M2 and M3 may represent a different rock unit or higher magnetic mineralization within a rock unit. Anomaly M4 is westerly trending and may be represented by a long and wide magnetic dyke or series of narrow, sub-parallel magnetic dykes. A long and narrow magnetic low which strikes across the grid from northeast to the southwest following the creek may represent a non-magnetic structure.

The VLF-EM survey delineated numerous anomalies on this grid. There are 7 prominent VLF-EM anomalies, good conductors, shown on the compilation map. The source of anomalies V1, V2, V3, V4 and V6 could be either massive sulphides, conductive faults or a combination of both. Anomaly V5 may be a separate conductors or the conductive edge of a wide structure. Anomaly V7 is slightly less prominent than other good anomalies and may represent either a conductive fault or even massive sulphide. The remainder of VLF-EM anomalies shown as medium and weak conductors may represent

resistive contacts or conductive faults. There is some association of the VLF-EM anomalies with magnetic anomalies. Although in this data the majority of the magnetic and VLF-EM anomalies are not coincident.

SJ Geophysics Ltd.

Zoran Dujakovic,


*Z. Dujakovic*  
Geophysicist  
*Syd Visser*  
S.J. Visser  
P. Geos  
COLUMBIA  
GEOSCIENTIST  
Geophysicist

## **APPENDIX I**

### **STATEMENT OF QUALIFICATIONS**

I, Zoran Dujakovic, of 4364 Vipond Place., Burnaby in the Province of British Columbia, DO HEREBY CERTIFY:

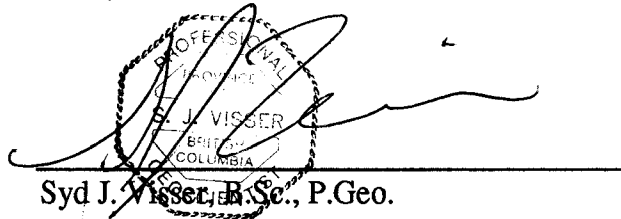
1. THAT I am a graduate of the Belgrade University, Faculty of Mining and Geology - Geophysics Program with a Engineer of Geology degree in Geophysics.
2. THAT I have been engaged in mining and petroleum exploration since 1981.
3. THAT I am registered as a Engineer of Geology - Geophysics Program with the Chamber of Commerce of Serbia.
4. THAT this report is based on fieldwork carried out by SJ Geophysics Ltd. personnel in April/May 1996.
5. THAT I own no shares, directly or indirectly in B.Y.G. Natural Resources Inc., nor do I expect to acquire any shares. I have no interest, directly or indirectly, in the Nansen Property.

  
Zoran Dujakovic, Geophysicist

**STATEMENT OF QUALIFICATIONS**

I, Syd J. Visser, of 11762 - 94<sup>th</sup> Avenue, Delta, British Columbia, hereby certifies that:

- 1) I am a graduate of the University of British Columbia, 1981, where I obtained a B.Sc. (Hon.) Degree in Geology and Geophysics.
- 2) I am a graduate of Haileybury School of Mines, 1971.
- 3) I have been engaged in mining exploration since 1968.
- 4) I am a professional Geoscientist registered in British Columbia.



The image shows a handwritten signature in black ink over a circular professional seal. The seal contains the text 'PROFESSIONAL', 'S.J. VISSER', and 'BRITISH COLUMBIA'. The signature is written in a cursive style and extends across the seal and to the right.

Syd J. Visser, B.Sc., P.Geol.

Geophysicist/Geologist

## **REFERENCES**

- Melling, D.R., 1995** Summary Report: 1995 Exploration Program
- Sinclair, W.D., Maloney, J.M. and Craig, D.B., 1974** Mineral Industry Report 1974 Yukon Territory, p. 126-127.
- Indian and Northern Affairs Canada** Yukon Mining and Exploration Overview 1988 p. 35-36.
- Indian and Northern Affairs Canada** Yukon Exploration 1985-1986 p. 337.
- Indian and Northern Affairs Canada** Yukon Exploration & Geology 1994 p. 5.

#25

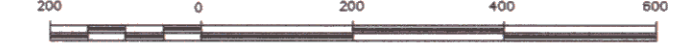
093543

B.Y.G. NATURAL RESOURCES INC.

MT. NANSEN PROJECT, YUKON  
NISLING LK. & BUFFALO GRIDS

### GRID & CLAIMS LOCATION MAP

Whitehorse M.D. NAD 27 NTS 115 1/3 & 115 H/14  
SCALE IN METRES



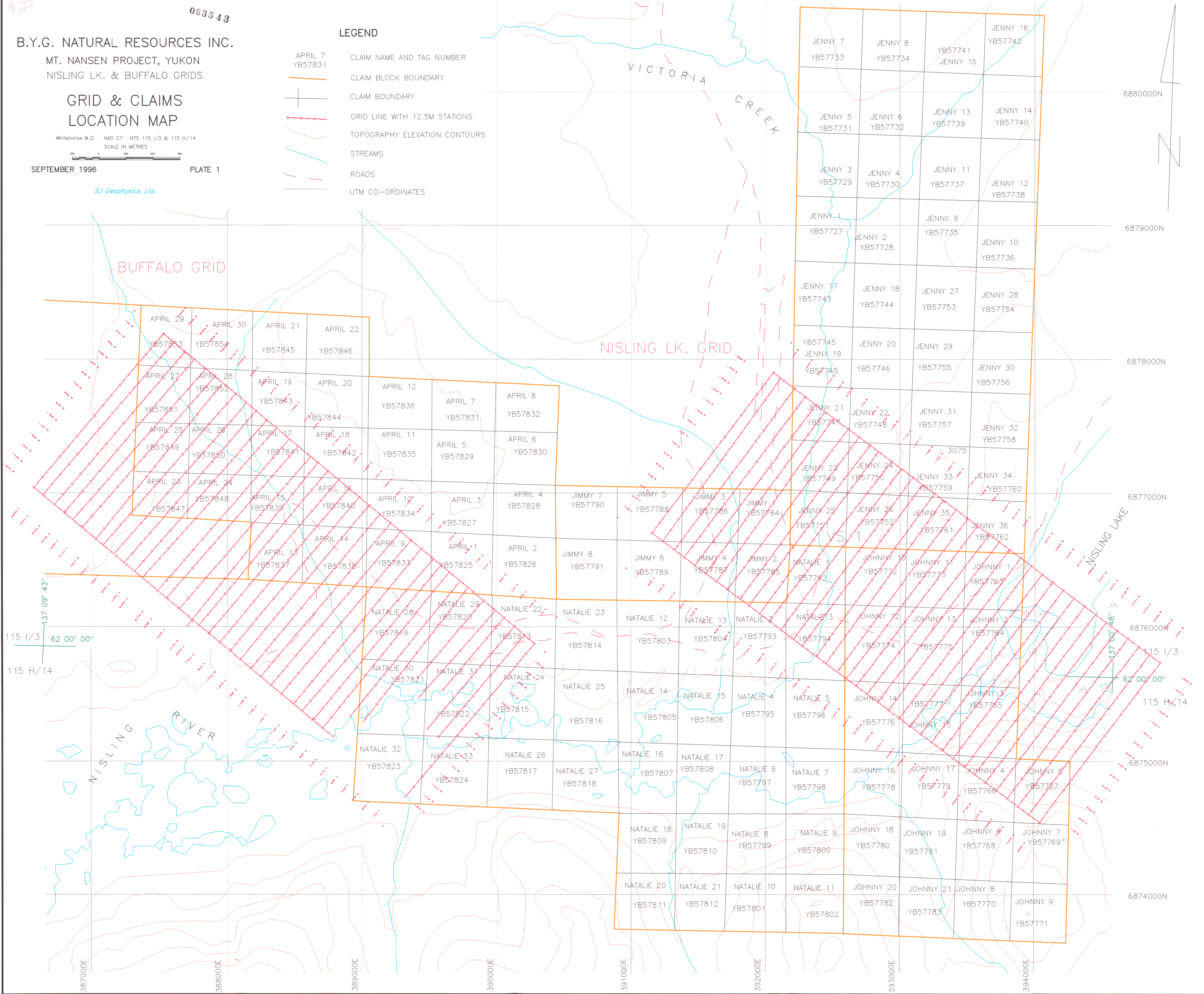
SEPTEMBER 1996

PLATE 1

SJ Geophysics Ltd.

#### LEGEND

- APRIL 7  
YB57831
- CLAIM NAME AND TAG NUMBER
- CLAIM BLOCK BOUNDARY
- CLAIM BOUNDARY
- GRID LINE WITH 12.5M STATIONS
- TOPOGRAPHY ELEVATION CONTOURS
- STREAMS
- ROADS
- UTM CO-ORDINATES



137 09' 43"  
115 1/3 62 00' 00"  
115 H/14

688000N

6879000N

6878000N

6877000N

6876000N

6875000N

6874000N

387000E

388000E

389000E

390000E

391000E

392000E

393000E

394000E

115 1/3

115 H/14

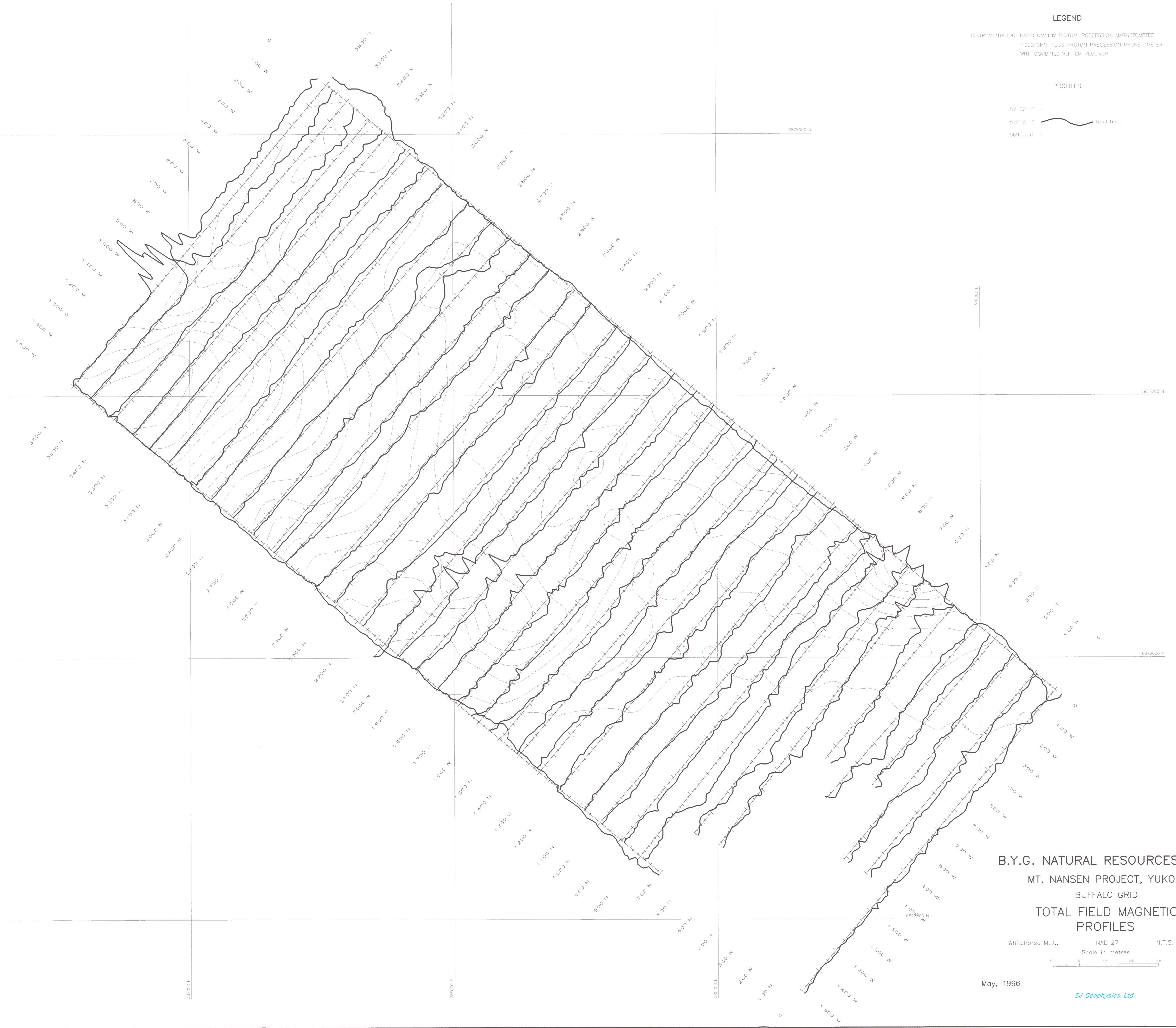
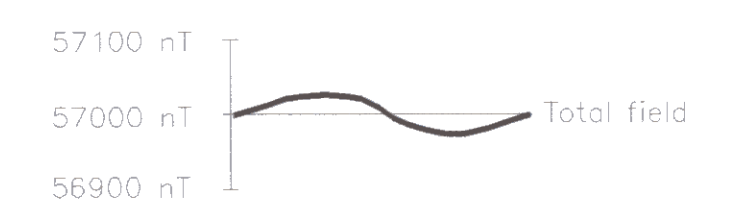
62 00' 00"

137 00' 48"

LEGEND

INSTRUMENTATION: BASE: OMNI IV PROTON PRECESSION MAGNETOMETER  
FIELD: OMNI PLUS PROTON PRECESSION MAGNETOMETER  
WITH COMBINED VLF-EM RECEIVER

PROFILES



B.Y.G. NATURAL RESOURCES INC.  
MT. NANSEN PROJECT, YUKON  
BUFFALO GRID  
TOTAL FIELD MAGNETIC  
PROFILES

Whitehorse M.D., NAD 27 N.T.S. 115-1/3  
Scale in metres



May, 1996

SJ Geophysics Ltd.

Plate BG-1A

053-13

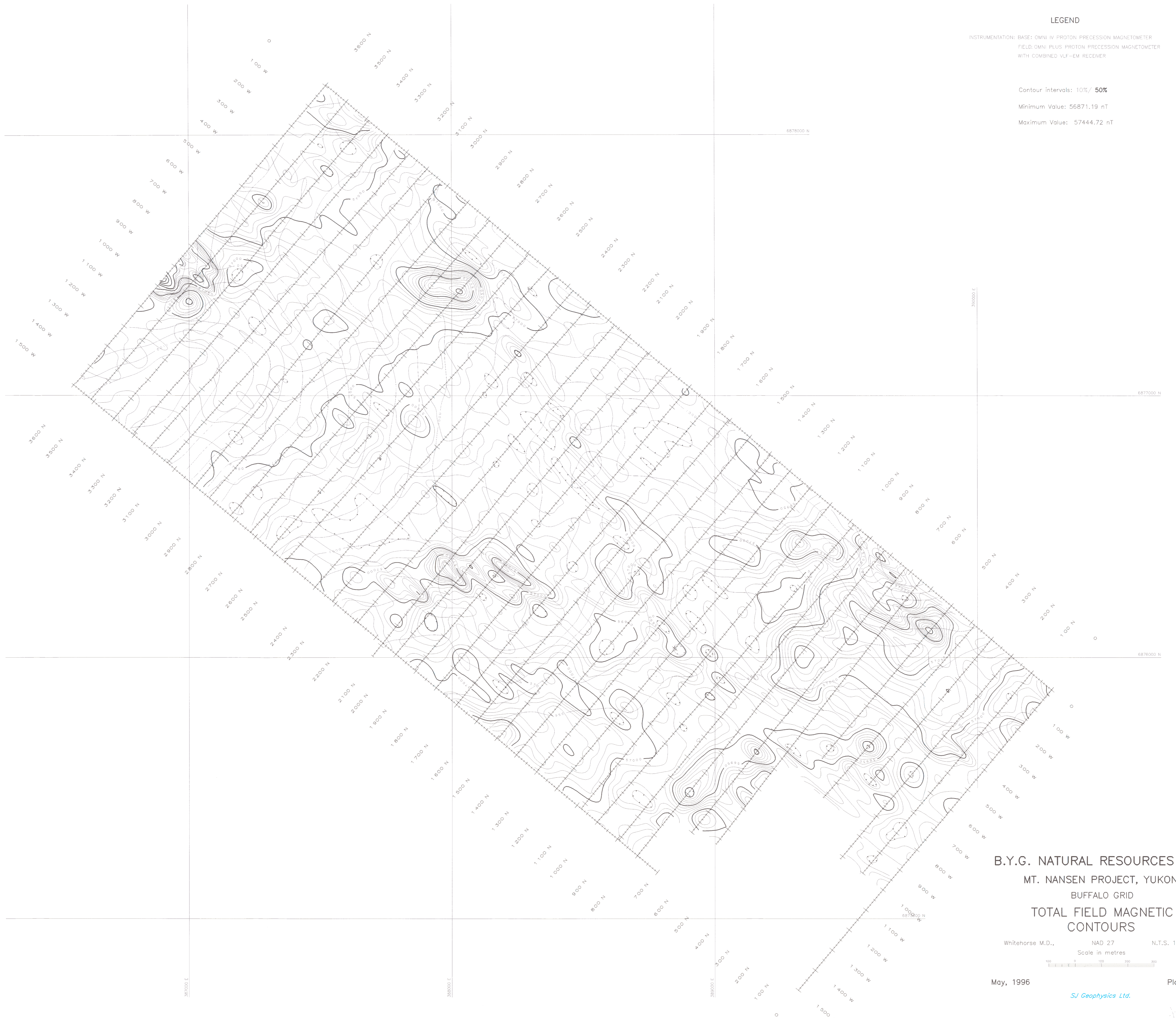
LEGEND

INSTRUMENTATION: BASE: OMNI IV PROTON PRECESSION MAGNETOMETER  
FIELD: OMNI PLUS PROTON PRECESSION MAGNETOMETER  
WITH COMBINED VLF-EM RECEIVER

Contour intervals: 10%/ 50%

Minimum Value: 56871.19 nT

Maximum Value: 57444.72 nT



093543

B.Y.G. NATURAL RESOURCES INC.  
MT. NANSEN PROJECT, YUKON  
BUFFALO GRID  
TOTAL FIELD MAGNETIC  
CONTOURS

Whitehorse M.D., NAD 27 N.T.S. 115-1/3

Scale in metres  
0 100 200 300

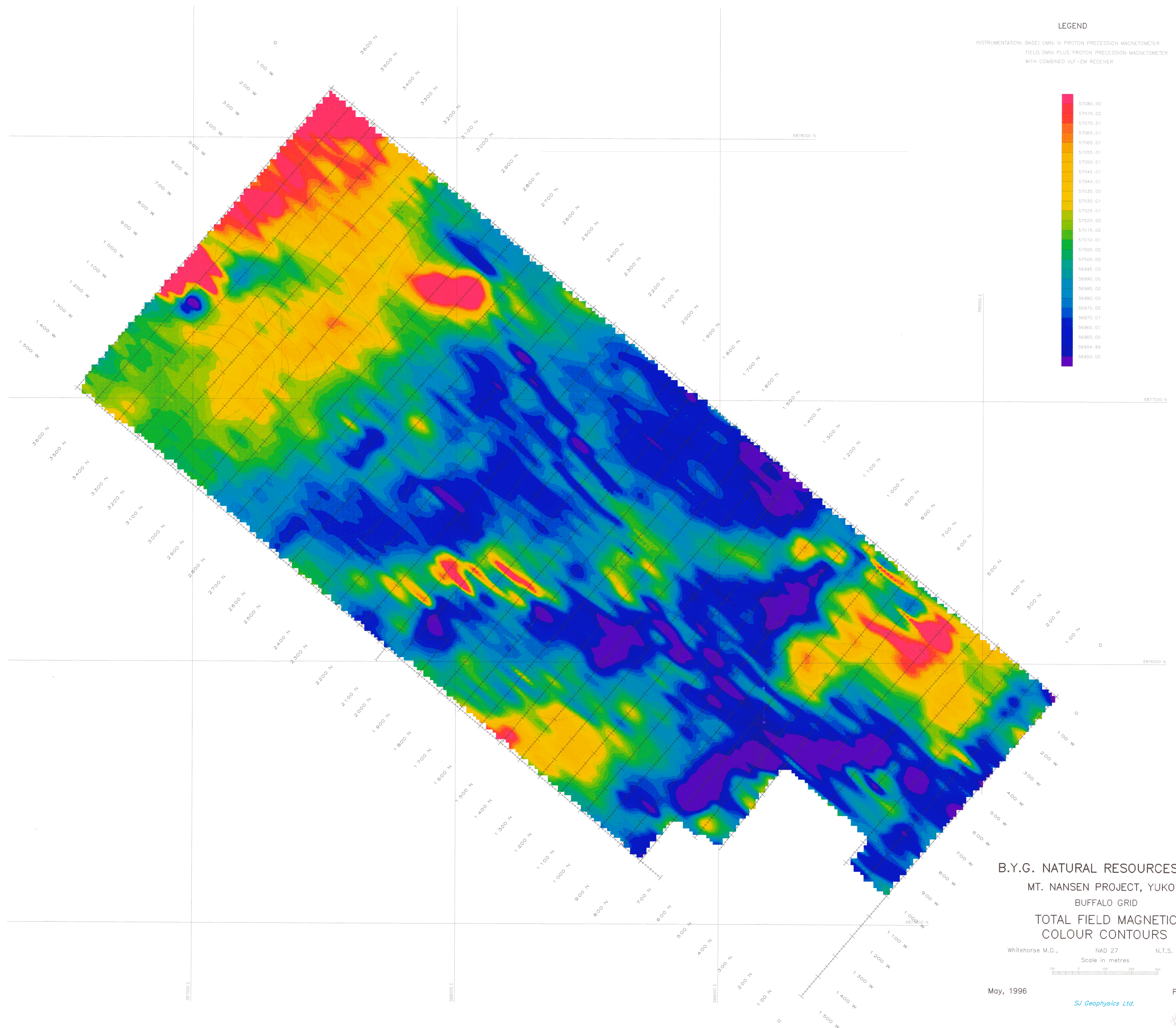
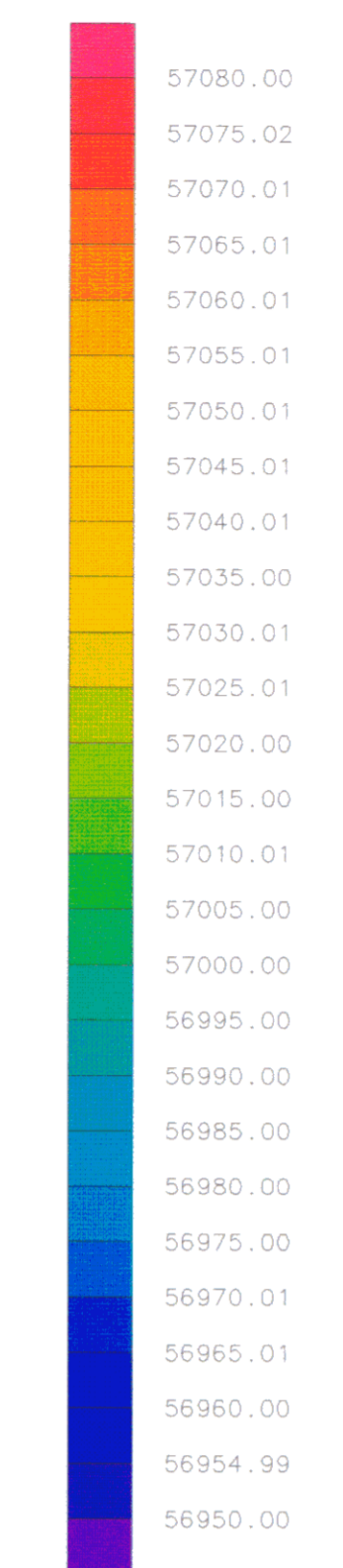
May, 1996

SJ Geophysics Ltd.

Plate BG-1B

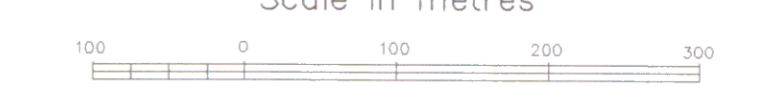
LEGEND

INSTRUMENTATION: BASE: OMNI-IV PROTON PRECESSION MAGNETOMETER  
FIELD: OMNI-PLUS PROTON PRECESSION MAGNETOMETER  
WITH COMBINED VLF-EM RECEIVER



B.Y.G. NATURAL RESOURCES INC.  
MT. NANSEN PROJECT, YUKON  
BUFFALO GRID  
TOTAL FIELD MAGNETIC  
COLOUR CONTOURS

Whitehorse M.D., NAD 27 N.T.S. 115-1/3  
Scale in metres



May, 1996

SJ Geophysics Ltd.

Plate BG-1C

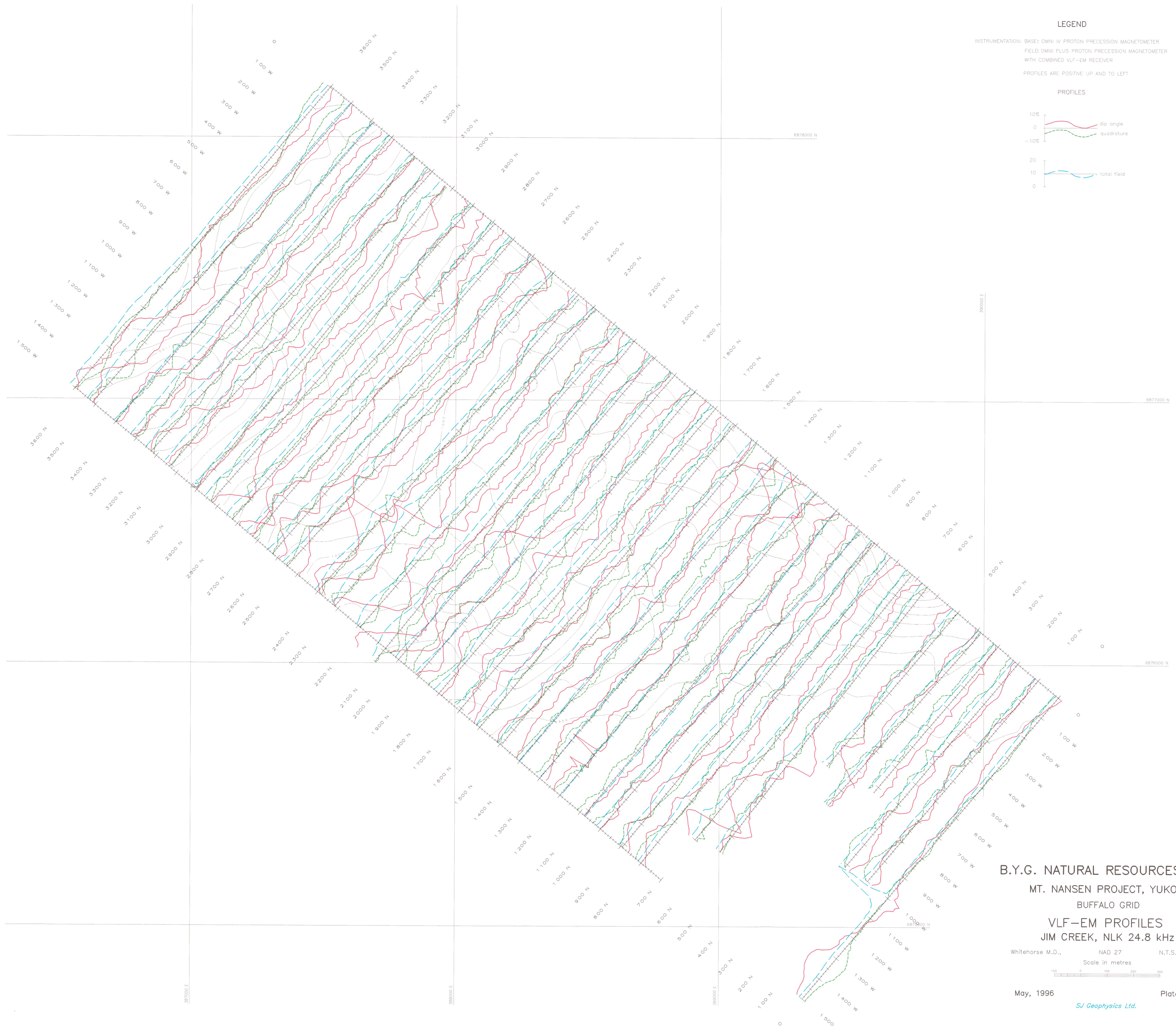
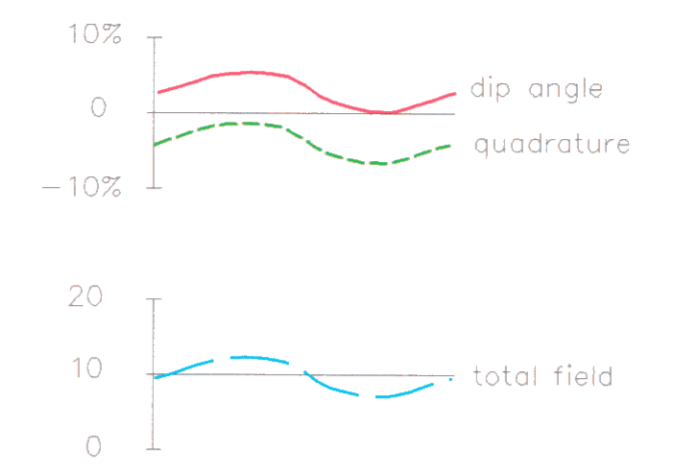
#20

053743

LEGEND

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FIELD: OMNI PLUS PROTON PRECESSION MAGNETOMETER  
WITH COMBINED VLF-EM RECEIVER  
PROFILES ARE POSITIVE UP AND TO LEFT

PROFILES



053543

B.Y.G. NATURAL RESOURCES INC.  
MT. NANSEN PROJECT, YUKON  
BUFFALO GRID  
VLF-EM PROFILES  
JIM CREEK, NLK 24.8 kHz

Whitehorse M.D., NAD 27 N.T.S. 115-1/3

Scale in metres



May, 1996

Plate BG-2A

SJ Geophysics Ltd.

#21

LEGEND

INSTRUMENTATION: BASE: OMNI IV PROTON PRECESSION MAGNETOMETER  
FIELD: OMNI PLUS PROTON PRECESSION MAGNETOMETER  
WITH COMBINED VLF-EM RECEIVER

Negative Contours Suppressed

Contour intervals: 1%/ 5%/ **25%**

Minimum Value: 0%

Maximum Value: 22.63%



093543

B.Y.G. NATURAL RESOURCES INC.

MT. NANSEN PROJECT, YUKON  
BUFFALO GRID

VLF-EM CONTOURS  
FRASER FILTERED DIP ANGLE  
JIM CREEK, NLK 24.8 kHz

Whitehorse M.D., NAD 27 N.T.S. 115-1/3

Scale in metres



May, 1996

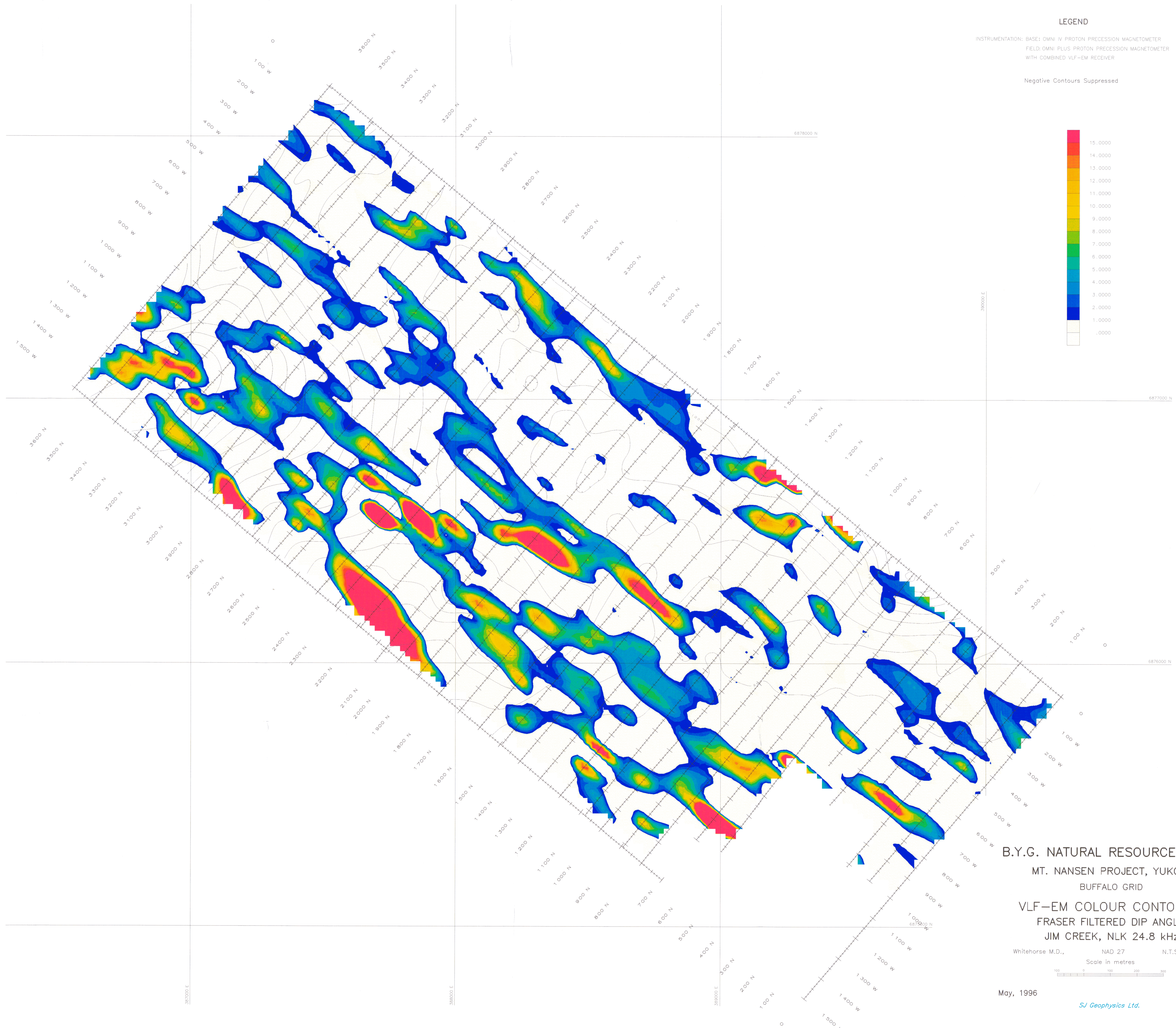
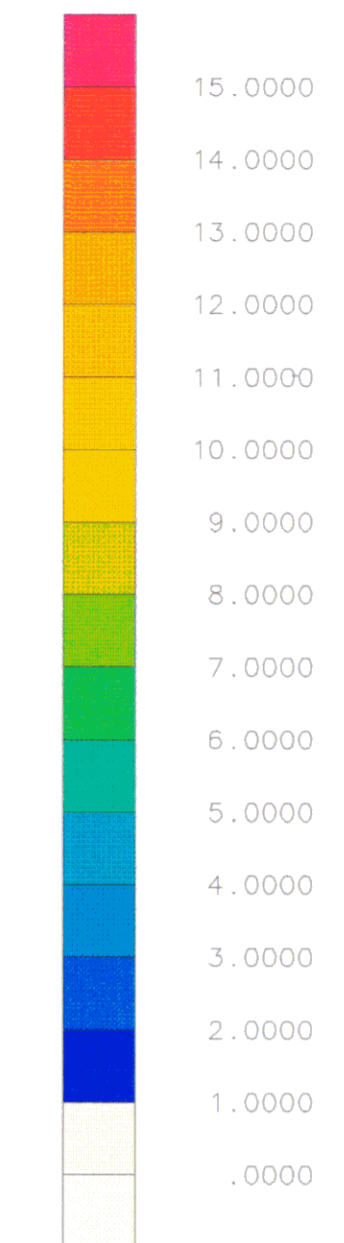
Plate BG-2B

SJ Geophysics Ltd.

LEGEND

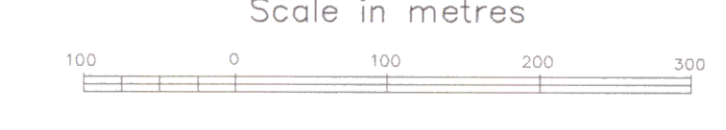
INSTRUMENTATION: BASE: OMNI IV PROTON PRECESSION MAGNETOMETER  
FIELD: OMNI PLUS PROTON PRECESSION MAGNETOMETER  
WITH COMBINED VLF-EM RECEIVER

Negative Contours Suppressed



B.Y.G. NATURAL RESOURCES INC.  
MT. NANSEN PROJECT, YUKON  
BUFFALO GRID  
VLF-EM COLOUR CONTOURS  
FRASER FILTERED DIP ANGLE  
JIM CREEK, NLK 24.8 kHz

Whitehorse M.D., NAD 27 N.T.S. 115-1/3



May, 1996

SJ Geophysics Ltd.




Plate BG-2C

0.93543




#23

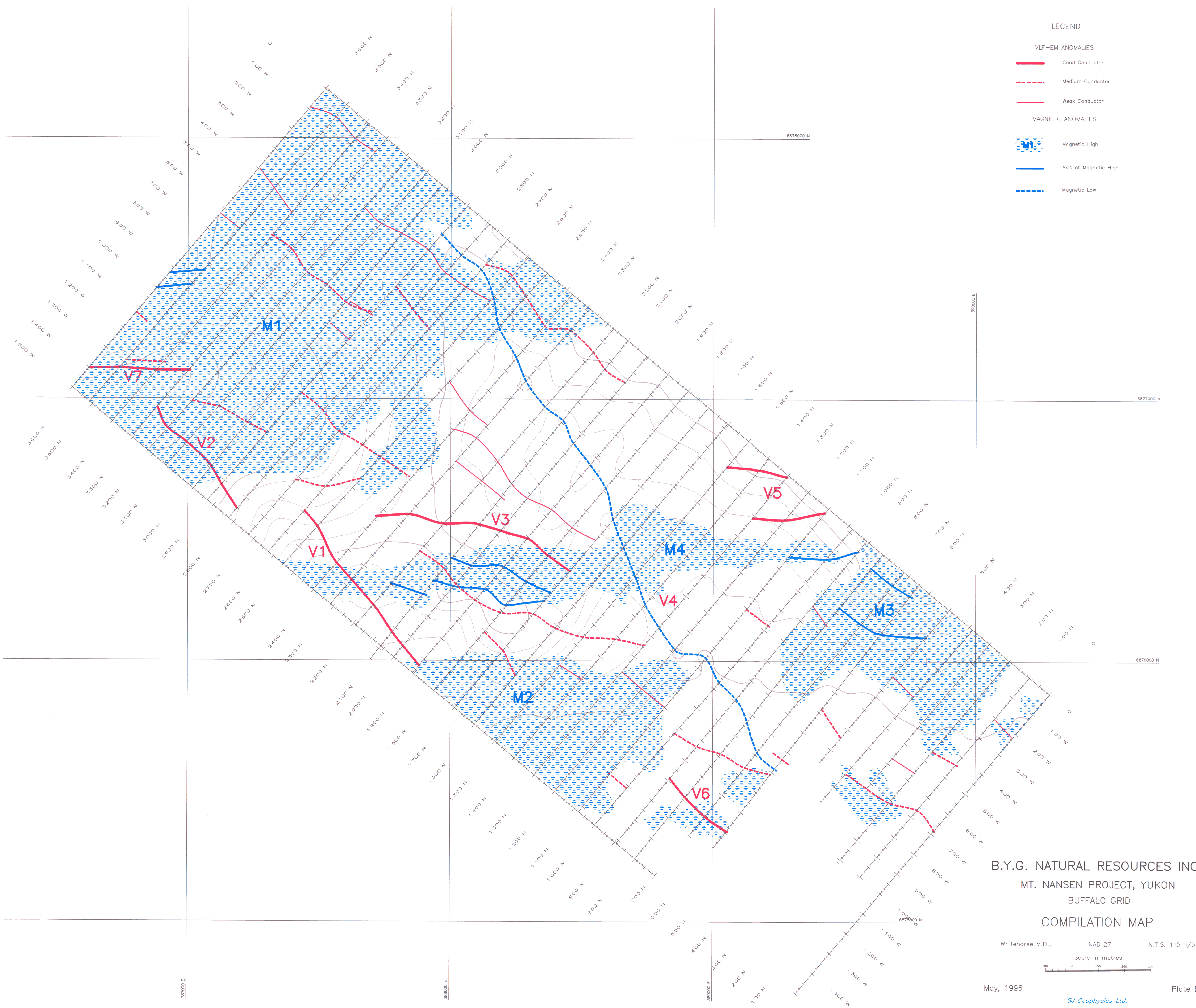
LEGEND

VLF-EM ANOMALIES

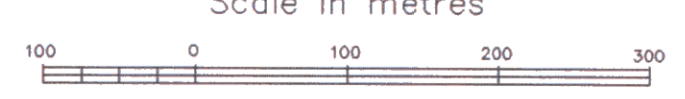
-  Good Conductor
-  Medium Conductor
-  Weak Conductor

MAGNETIC ANOMALIES

-  Magnetic High
-  Axis of Magnetic High
-  Magnetic Low



B.Y.G. NATURAL RESOURCES INC.  
MT. NANSEN PROJECT, YUKON  
BUFFALO GRID  
COMPILATION MAP

Whitehorse M.D., NAD 27 N.T.S. 115-1/3  
Scale in metres  


May, 1996

SJ Geophysics Ltd.

Plate BG-3

#24

Addendum 2

**ASSESSMENT REPORT**  
**MAGNETOMETER & VLF-EM**  
**SURVEY**

on the

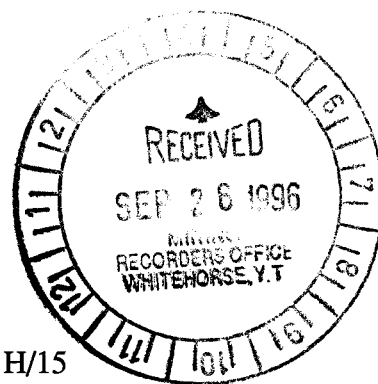
Jenny 1-36, Johnny 1-21, Jimmy 1-8, Natalie 1-33,  
April 1-30 Claims

NISLING LAKE GRID

Latitude 62°00' North  
Longitude 137°05' West

Whitehorse, Mining District,

N.T.S 115 I/3 H/15



for

**B.Y.G. NATURAL RESOURCES INC.**

110 Industrial Road  
Whitehorse, Yukon  
Y1A 2T1 Canada

Survey by

**SJ GEOPHYSICS LTD.**

11762 - 94<sup>th</sup> Avenue  
Delta, British Columbia  
Canada V4C 3R7

Report by

Zoran Dujakovic, Geophysicist  
and  
Syd Visser, P. Geo

S.J.V. Consultants Ltd.

April 5, 1996 to May 30, 1996

0935 43

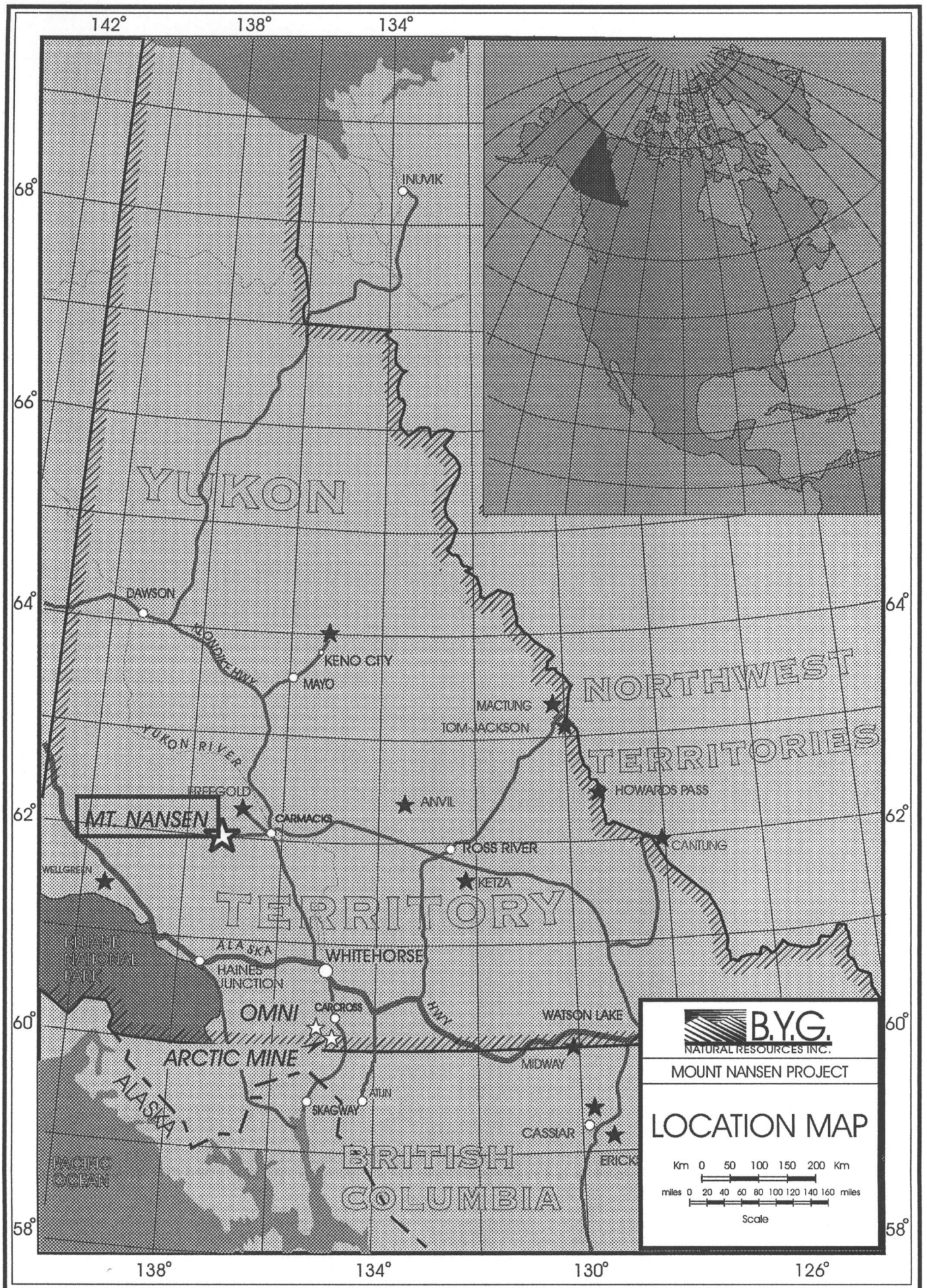


Figure 1: Location Map

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**LIST OF CLAIMS AND TAG NUMBERS**

<b>CLAIM NAME</b>		<b>TAG NUMBER</b>		<b>CLAIM NAME</b>		<b>TAG NUMBER</b>
JENNY	1	YB57727		JOHNNY	7	YB57769
JENNY	2	YB57728		JOHNNY	8	YB57770
JENNY	3	YB57729		JOHNNY	9	YB57771
JENNY	4	YB57730		JOHNNY	10	YB57772
JENNY	5	YB57731		JOHNNY	11	YB57773
JENNY	6	YB57732		JOHNNY	12	YB57774
JENNY	7	YB57733		JOHNNY	13	YB57775
JENNY	8	YB57734		JOHNNY	14	YB57776
JENNY	9	YB57735		JOHNNY	15	YB57777
JENNY	10	YB57736		JOHNNY	16	YB57778
JENNY	11	YB57737		JOHNNY	17	YB57779
JENNY	12	YB57738		JOHNNY	18	YB57780
JENNY	13	YB57739		JOHNNY	19	YB57781
JENNY	14	YB57740		JOHNNY	20	YB57782
JENNY	15	YB57741		JOHNNY	21	YB57783
JENNY	16	YB57742		JIMMY	1	YB57784
JENNY	17	YB57743		JIMMY	2	YB57785
JENNY	18	YB57744		JIMMY	3	YB57786
JENNY	19	YB57745		JIMMY	4	YB57787
JENNY	20	YB57746		JIMMY	5	YB57788
JENNY	21	YB57747		JIMMY	6	YB57789
JENNY	22	YB57748		JIMMY	7	YB57790
JENNY	23	YB57749		JIMMY	8	YB57791
JENNY	24	YB57750		NATALIE	1	YB57792
JENNY	25	YB57751		NATALIE	2	YB57793
JENNY	26	YB57752		NATALIE	3	YB57794
JENNY	27	YB57753		NATALIE	4	YB57795
JENNY	28	YB57754		NATALIE	5	YB57796
JENNY	29	YB57755		NATALIE	6	YB57797
JENNY	30	YB57756		NATALIE	7	YB57798
JENNY	31	YB57757		NATALIE	8	YB57799
JENNY	32	YB57758		NATALIE	9	YB57800
JENNY	33	YB57759		NATALIE	10	YB57801
JENNY	34	YB57760		NATALIE	11	YB57802
JENNY	35	YB57761		NATALIE	12	YB57803
JENNY	36	YB57762		NATALIE	13	YB57804
JOHNNY	1	YB57763		NATALIE	14	YB57805
JOHNNY	2	YB57764		NATALIE	15	YB57806
JOHNNY	3	YB57765		NATALIE	16	YB57807
JOHNNY	4	YB57766		NATALIE	17	YB57808
JOHNNY	5	YB57767		NATALIE	18	YB57809
JOHNNY	6	YB57768		NATALIE	19	YB57810

*Mt. Nansen Property, Nisling Lake Grid, Magnetometer & VLF-EM Survey, 1996*

<b>CLAIM NAME</b>		<b>TAG NUMBER</b>	<b>CLAIM NAME</b>		<b>TAG NUMBER</b>
NATALIE	20	YB57811	APRIL	1	YB57825
NATALIE	21	YB57812	APRIL	2	YB57826
NATALIE	22	YB57813	APRIL	3	YB57827
NATALIE	23	YB57814	APRIL	4	YB57828
NATALIE	24	YB57815	APRIL	5	YB57829
NATALIE	25	YB57816	APRIL	6	YB57830
NATALIE	26	YB57817	APRIL	7	YB57831
NATALIE	27	YB57818	APRIL	8	YB57832
NATALIE	28	YB57819	APRIL	9	YB57833
NATALIE	29	YB57820	APRIL	10	YB57834
NATALIE	30	YB57821	APRIL	11	YB57835
NATALIE	31	YB57822	APRIL	12	YB57836
NATALIE	32	YB57823	APRIL	13	YB57837
NATALIE	33	YB57824	APRIL	14	YB57838
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			APRIL	16	YB57840
			APRIL	17	YB57841
			APRIL	18	YB57842
			APRIL	19	YB57843
			APRIL	20	YB57844
			APRIL	21	YB57845
			APRIL	22	YB57846
			APRIL	23	YB57847
			APRIL	24	YB57848
			APRIL	25	YB57849
			APRIL	26	YB57850
			APRIL	27	YB57851
			APRIL	28	YB57852
			APRIL	29	YB57853
			APRIL	30	YB57854

## **INTRODUCTION**

Magnetic and very low frequency electromagnetic (VLF-EM) surveys were completed on the Mt. Nansen property, Nisling Lake Grid, for B.Y.G. Natural Resources Inc. by SJ Geophysics Ltd. The Mt. Nansen property is located about 60 km west of Carmacks (Figure 1), Yukon in the Whitehorse Mining District, NTS 115 I/3.

The purpose of the survey was to aid in the mapping of local geology, search for conductive mineralization and to follow up geochemical anomalies.

## **CLAIMS**

The claims (Plate 1) are located in the Whitehorse Mining District and are held by B.Y.G. Natural Resources Inc. Co-ordinates of the claims are latitude 62°05' north and longitude 137°08' west. Claims data are summarised as follows:

## **CLAIMS LOCATION AND ACCESS**

The property can be reached by vehicle from Whitehorse by travelling north 180 km on Highway #2 to Carmacks, and 60 km west on a gravel access road to the mine. In general four-wheel drive vehicles are not required on a gravel access road but they are required to access the property during the winter period.

## **CLIMATE**

The area is quite dry with average precipitation of about 25 cm, most of which falls as rain in the summer months. Late winter snow-pack is normally 30 to 40 cm deep. Average monthly temperatures range from -15°C in January to 15°C in July.

In general, outside activities such as construction can be conducted readily from April to early November.

## **HISTORY**

In 1943 prospectors Brown and McDade discovered lode deposit on Mount Nansen. Leitch Gold Mines forms Brown McDade Mines. Ltd.

In 1947 H. Heustis stacked gold-silver veins on Mt. Nansen. Mt. Nansen Mines Ltd. carried out surface exploration between 1962 and 1964, and in 1965 underground exploration began.

Between 1965 and 1967 two shafts were driven, one at the 1250 m level and one at the 1309 m level.

In 1968 and 1969 Heustis and Webber veins were mined at a rate of 65-90 tonnes per day. In 1969 without cyanide circuit, 40% of the gold reports to the tailings ponds and production ceased.

In 1976 mill re-opens again with excellent grades from Heustis and mine operated for 10 months.

In 1984 B.Y.G. acquires the Mt. Nansen property and options to Chevron who conducted extensive exploration and discovered Brown-McDade oxide deposits.

In 1986 11 diamond drill holes totalling 576 m were completed. Seven holes encountered significant gold and silver values in the Flex vein zone.

In 1988 exploration consisted of road construction, bulldozer and excavator trenching, stripping, rehabilitation of underground workings, and 5397 m of diamond drilling in 85 holes. Most of the drilling was done on the Brown-McDade zone.

In 1994 12 diamond drill holes totalling 1000 m were completed in the Flex, Heustis North and Brown-McDade sulphide zones.

## **GEOLOGY AND MINERALIZATION**

The Mt. Nansen is situated within the eastern part of the Yukon Crystalline Terrain, which lies between the Coast Plutonic Complex to the southwest and the Yukon Cataclastic Terrain to the northwest.

The southern portion of the property is underlain by deformed, medium to high grade metamorphic rocks. These include interlayered quartz-feldspar-chlorite gneiss, quartzite, amphibolite and augen gneiss. Foliation within these rocks strikes northeast and dips steeply to the northwest.

The northeastern portion of property is underlain by Early Cretaceous coarse-grained granodiorite with lesser quartz diorite and quartz monzonite. These rocks may contain up to 25% stubby amphibole and are locally foliated. Coeval pegmatite and aplite dykes are common locally

Two types of faults occur on the property. The first set strikes north-northwest and dips between 50° and 70° to the southwest. These faults are parallel to the veins and locally mineralized. The second set of faults strikes northeast and dips subvertically. These

faults vary in their sense and magnitudes of displacement. Locally, they cut the mineralized zones.

Gold and silver occur in a number of quartz-sulphide vein zones which cut Palaeozoic metamorphic rocks, Cretaceous quartz monzonite stocks, feldspar porphyry dykes and plugs, andesitic flows and pyroclastic rocks. The vein strikes northwest and dips from 80° NE to 45° SW. The veins comprise quartz lenses with arsenopyrite, pyrite, sphalerite, galena, tetrahedrite and stibnite. Depth of total oxidation ranges from 0 to 100 m depending on the type of mineralization and orientation of the vein.

## **FIELD WORK AND INSTRUMENTATION**

Magnetometer & VLF-EM surveys were completed April 5 -19, 1996, comprising 14 data acquisition days and 1 mob/demob day. Data acquisition, processing and field presentation was performed by Zoran Dujakovic (Geophysicist). The Nisling Lake grid consisted of flagged, compass and hip-chain lines. Surveying was performed at 12.5 metre intervals along the 100 m spaced lines, for a total of 55.00 kilometres.

An EDA OMNI PLUS combined proton precession magnetometer and VLF-EM system were used for data acquisition and an EDA OMNI IV proton precession magnetometer was used as a base station which recorded data in 30 seconds intervals. The VLF-EM survey used the signals from Jim Creek (Seattle 24.8 kHz, NLK) and Cutler (24.0 kHz, NAA). The Cutler transmitter is poorly orientated for east/west lines and was used primarily for conformation of anomalies detected with the Jim Creek transmitter. Relation signal/noise from the Cutler transmitter was very bad and the data from this station is not presented. The direction of VLF-EM surveying is positive to the east.

All data was downloaded to a computer in the evening. The data was processed as time permitted by the geophysicist. The data was plotted on an Bubble Jet printer.

The data was re-plotted on a 36 inch Ink Jet colour plotter in Vancouver for the final presentation and interpretation.

## **DATA PRESENTATION**

The magnetic, VLF-EM, and filtered VLF-EM data and compilation of the magnetic and VLF-EM data are presented on the following plates:

**TABLE 1 list of plates**

PLATE 1	GRID & CLAIMS LOCATION MAP	In Pocket
PLATE NG-1A	TOTAL FIELD MAGNETIC PROFILES	In Pocket
PLATE NG-1B	TOTAL FIELD MAGNETIC CONTOURS	In Pocket
PLATE NG-1C	TOTAL FIELD MAGNETIC COLOUR CONTOURS	In Pocket
PLATE NG-2A	VLF-EM PROFILES JIM CREEK, NLK 24.8 KHZ	In Pocket
PLATE NG-2B	VLF-EM FRASER FILTERED CONTOURS JIM CREEK, NLK 24.8 KHZ	In Pocket
PLATE NG-2C	VLF-EM FRASER FILTERED COLOUR CONTOURS JIM CREEK, NLK 24.8 KHZ	In Pocket
PLATE NG-3	COMPILATION MAP	In Pocket

Contour maps are presented as black and white line contours for the assessment reports and as solid colour for the client.

## **INTERPRETATION**

The interpretation is presented on the compilation map, Plate G3. Discussions regarding directions on the grid will be in terms of grid east, north, south, and west.

## **MAGNETICS**

The magnetometer survey has delineated two different type of magnetic anomalies as shown on the compilation map. One is shown as magnetic high which may represent a different rock unit and another one is shown as axis of magnetic highs. This type of anomaly may be represented by near surface magnetic dykes, higher magnetic phases/lenses within a unit or fault/shear zones containing magnetic mineralization. There are a couple of magnetic highs, two of the more interesting are labelled as M1 and M2. Magnetic anomaly M1 north-south trending is located at north-eastern part of grid. The east-west trending anomaly M2 is located at the southern part of grid.

## **VLF-EM**

The VLF-EM survey has delineated the numerous northwest-southeast trending anomalies shown on the compilation map as good, medium and weak conductors. There is a minor correlation between the magnetics and VLF-EM anomalies.

The most prominent VLF-EM anomalies are well defined, good conductors, labelled V1 to V6. Anomalies V1 and V6 are located at the eastern part of grid. Anomalies V2 to V5 are located at the southern part of grid. The source of these anomalies could either be massive sulphides, conductive faults or a combination of both

Anomaly V1 is a good shallow conductor approximately 500 metre strike length. A relative magnetic low follows A1.

Anomaly V2 is a medium to good conductor that becomes shallower to the southeast.

Anomaly V3 is a west-east trending anomaly that appear to join V2 to the east.

Anomaly V4 is a medium to good conductor and appears to be truncated to the northwest in a magnetically complex area. The southeastern part V4 is a good conductor and is open to the southeast.

The VLF-EM anomaly V5 is located at the eastern corner of the grid approximately 200 metres strike length. V5 is associated with lithological contact.

Anomaly V6 is north-south trending anomaly, associated with magnetic high. V6 could be the northern part of anomaly V1.

Anomalies V2, V3, V4 and V5 are open to the southeast.

The remainder of VLF-EM anomalies shown as medium and weak conductors are not discussed but presented on the compilation map. These anomalies may represent resistive contacts or conductive faults.

## **RECOMMENDATIONS**

The geophysical data should be compiled with geological mapping and sampling to determine if more detail work or other geophysical techniques are required to enhance the geological mapping. If the results of the mag/VLF survey correlate well with the geology further interpretation with the geophysics and the geology is recommended.

The survey area should be extended to the southeast to further delineate the good VLF-EM anomalies on the Nisling Lake grid.

All VLF-EM good anomalies should be checked by other geophysical techniques, such as Horizontal Loop EM(HLEM), before the diamond drilling program is started.

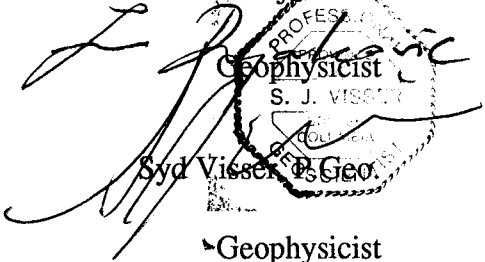
## **CONCLUSION**

The magnetometer survey delineated a number of magnetic anomalies. It would appear from magnetic data that there are two different types of magnetic anomalies. The predominant one, which may represent a different rock unit, is cut by numerous linear magnetic features. The second one, shown on compilation map as axis of magnetic highs, may be represented by magnetic dykes, higher magnetic phases/lenses within a unit or fault/shear zones containing magnetic mineralization.

The VLF-EM survey delineated numerous anomalies on this grid. There are 6 prominent VLF-EM anomalies, good conductors, shown on the compilation map. The source of these anomalies could either be massive sulphides, conductive faults or a combination of both. The VLF-EM survey has shown the dominant trend of the VLF-EM anomalies to be northwest-southeast. The remainder of VLF-EM anomalies shown as medium and weak conductors may represent resistive contacts or conductive faults. There is a minor correlation between the VLF-EM anomalies and the magnetic signature.

SJ Geophysics Ltd.

Zoran Dujakovic,



PROFES  
Geophysicist  
S. J. VISSER  
S. J. VISSER  
Geophysicist

Geophysicist

## **APPENDIX I**

### **STATEMENT OF QUALIFICATIONS**

I, Zoran Dujakovic, of 4364 Vipond Place., Burnaby in the Province of British Columbia, DO HEREBY CERTIFY:


1. THAT I am a graduate of the Belgrade University, Faculty of Mining and Geology - Geophysics Program with a Engineer of Geology degree in Geophysics.

2. THAT I have been engaged in mining and petroleum exploration since 1981.

3. THAT I am registered as a Engineer of Geology - Geophysics Program with the Chamber of Commerce of Serbia.

4. THAT this report is based on fieldwork carried out by SJ Geophysics Ltd. personnel in April 1996.

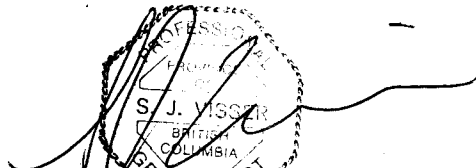
5. THAT I own no shares, directly or indirectly in B.Y.G. Natural Resources Inc., nor do I expect to acquire any shares. I have no interest, directly or indirectly, in the Nansen Property.

  
Zoran Dujakovic, Geophysicist

**STATEMENT OF QUALIFICATIONS**

I, Syd J. Visser, of 11762 - 94<sup>th</sup> Avenue, Delta, British Columbia, hereby certifies that:

- 1) I am a graduate of the University of British Columbia, 1981, where I obtained a B.Sc. (Hon.) Degree in Geology and Geophysics.
- 2) I am a graduate of Haileybury School of Mines, 1971.
- 3) I have been engaged in mining exploration since 1968.
- 4) I am a professional Geoscientist registered in British Columbia.

A circular professional registration stamp for the Association of Professional Geoscientists of British Columbia. The stamp contains the text: "ASSOCIATION OF PROFESSIONAL GEOSCIENTISTS OF BRITISH COLUMBIA", "S. J. VISSER", "BRITISH COLUMBIA", and "PROFESSIONAL GEOSCIENTIST". A handwritten signature in black ink is written over the stamp.

---

Syd J. Visser B.Sc., P.Ge.

Geophysicist/Geologist

## **REFERENCES**

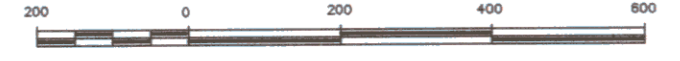
- Melling, D.R., 1995** Summary Report: 1995 Exploration Program
- Sinclair, W.D., Maloney, J.M. and Craig, D.B., 1974** Mineral Industry Report 1974 Yukon Territory, p. 126-127.
- Indian and Northern Affairs Canada** Yukon Mining and Exploration Overview 1988 p. 35-36.
- Indian and Northern Affairs Canada** Yukon Exploration 1985-1986 p. 337.
- Indian and Northern Affairs Canada** Yukon Exploration & Geology 1994 p. 5.

03543

B.Y.G. NATURAL RESOURCES INC.  
MT. NANSEN PROJECT, YUKON  
NISLING LK. & BUFFALO GRIDS

### GRID & CLAIMS LOCATION MAP

Whitehorse M.D. NAD 27 NTS 115 I/3 & 115 H/14  
SCALE IN METRES



SEPTEMBER 1996

PLATE 1

SJ Geophysics Ltd.

#### LEGEND

- APRIL 7  
YB57831 CLAIM NAME AND TAG NUMBER
- CLAIM BLOCK BOUNDARY
- CLAIM BOUNDARY
- GRID LINE WITH 12.5M STATIONS
- TOPOGRAPHY ELEVATION CONTOURS
- STREAMS
- ROADS
- UTM CO-ORDINATES



LEGEND

INSTRUMENTATION: BASE: OMNI IV PROTON PRECESSION MAGNETOMETER  
FIELD: OMNI PLUS PROTON PRECESSION MAGNETOMETER  
WITH COMBINED VLF-EM RECEIVER

PROFILES



B.Y.G. NATURAL RESOURCES INC.  
MT. NANSEN PROJECT, YUKON  
NISLING LAKE GRID  
TOTAL FIELD MAGNETIC  
PROFILES

Whitehorse M.D., NAD 27 N.T.S. 115-1/3

Scale in metres



May, 1996

SJ Geophysics Ltd.

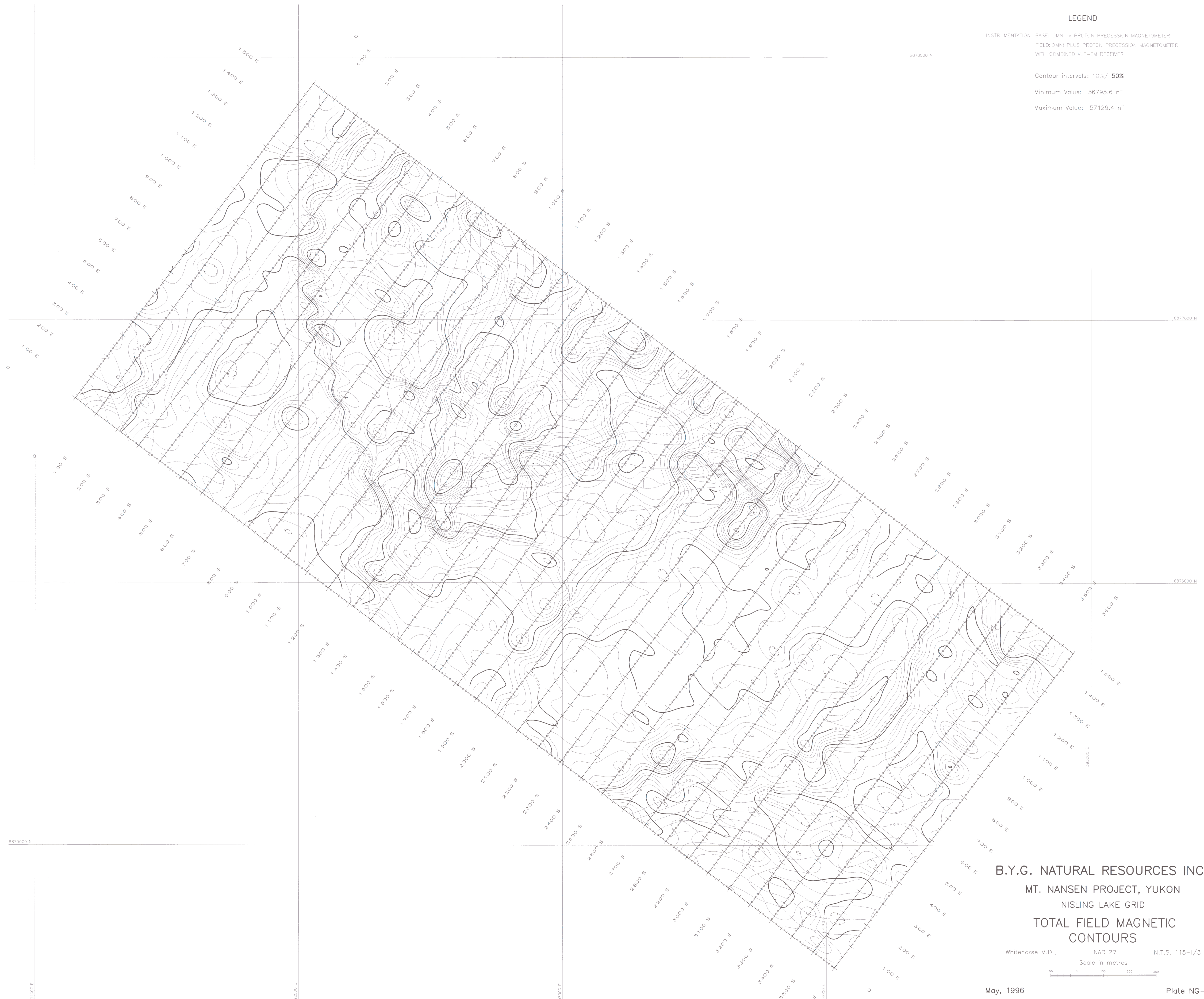
Plate NG-1A

0-5548

LEGEND

INSTRUMENTATION: BASE: OMNI IV PROTON PRECESSION MAGNETOMETER  
FIELD: OMNI PLUS PROTON PRECESSION MAGNETOMETER  
WITH COMBINED VLF-EM RECEIVER

Contour intervals: 10%/ 50%  
Minimum Value: 56795.6 nT  
Maximum Value: 57129.4 nT



093543

B.Y.G. NATURAL RESOURCES INC.  
MT. NANSEN PROJECT, YUKON  
NISLING LAKE GRID  
TOTAL FIELD MAGNETIC  
CONTOURS

Whitehorse M.D., NAD 27 N.T.S. 115-1/3

Scale in metres



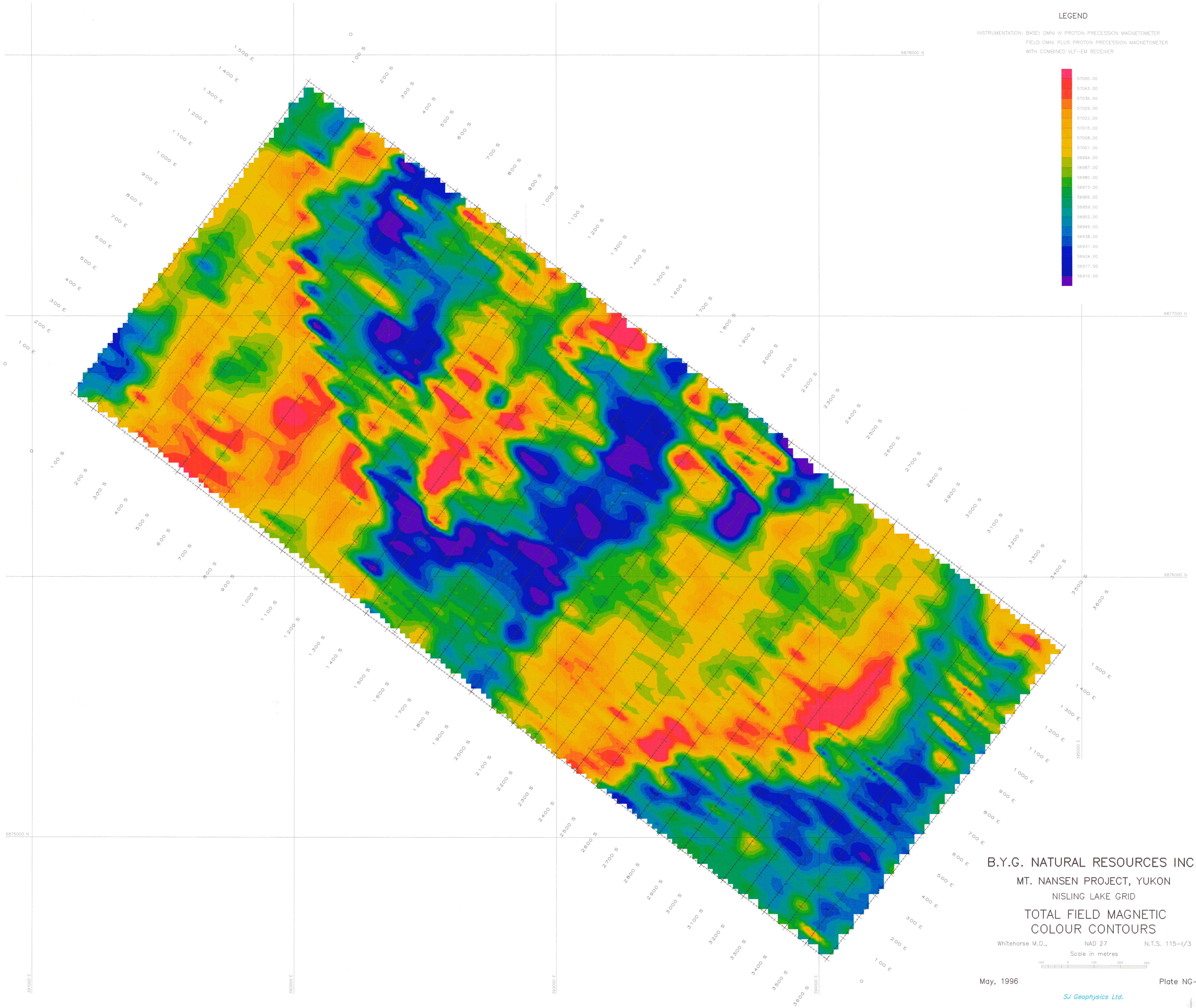
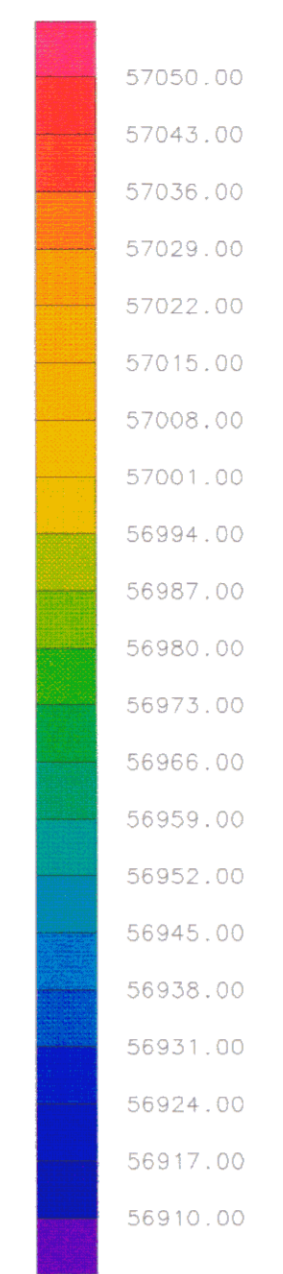
May, 1996

Plate NG-1B

SJ Geophysics Ltd.

LEGEND

INSTRUMENTATION: BASE: OMNI IV PROTON PRECESSION MAGNETOMETER  
FIELD: OMNI PLUS PROTON PRECESSION MAGNETOMETER  
WITH COMBINED VLF-EM RECEIVER



B.Y.G. NATURAL RESOURCES INC.  
MT. NANSEN PROJECT, YUKON  
NISLING LAKE GRID  
TOTAL FIELD MAGNETIC  
COLOUR CONTOURS

Whitehorse M.D., NAD 27 N.T.S. 115-1/3

Scale in metres



May, 1996

Plate NG-1C

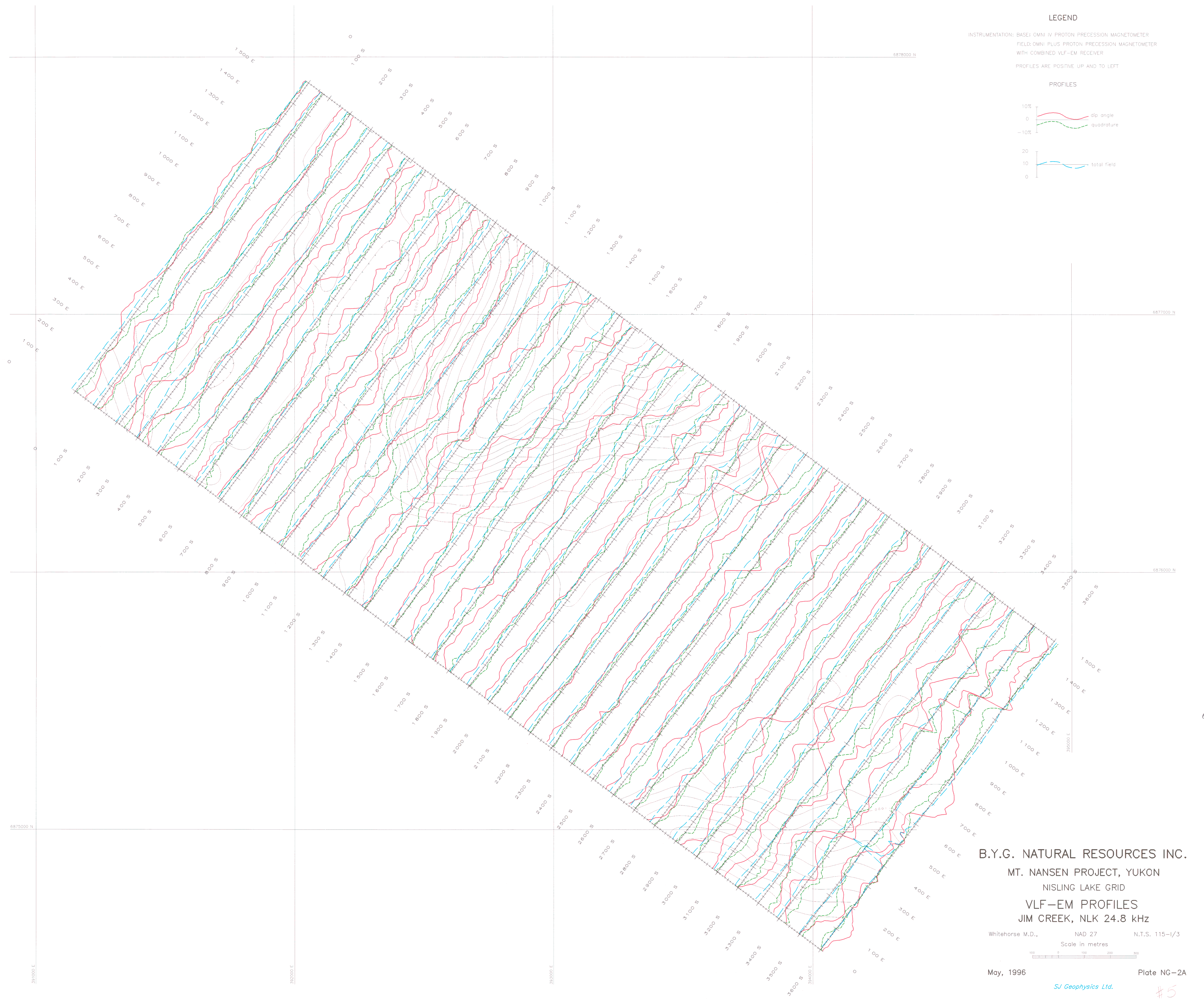
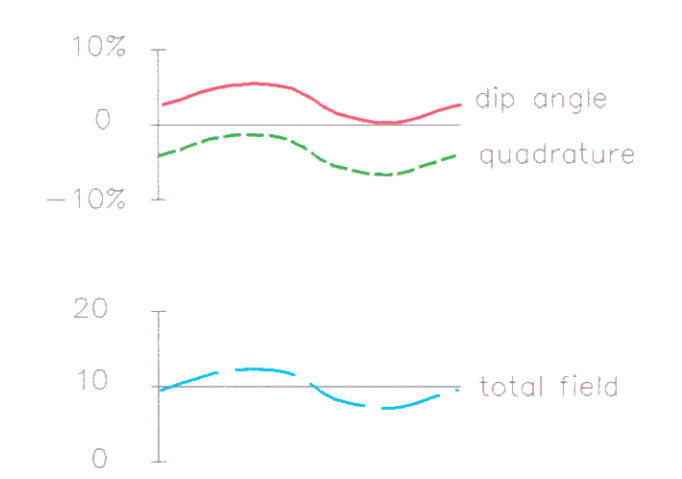
SJ Geophysics Ltd.

092543

LEGEND

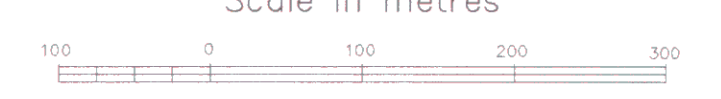
INSTRUMENTATION: BASE: OMNI IV PROTON PRECESSION MAGNETOMETER  
FIELD: OMNI PLUS PROTON PRECESSION MAGNETOMETER  
WITH COMBINED VLF-EM RECEIVER  
PROFILES ARE POSITIVE UP AND TO LEFT

PROFILES



B.Y.G. NATURAL RESOURCES INC.  
MT. NANSEN PROJECT, YUKON  
NISLING LAKE GRID  
VLF-EM PROFILES  
JIM CREEK, NLK 24.8 KHZ

Whitehorse M.D., NAD 27 N.T.S. 115-1/3  
Scale in metres



May, 1996

Plate NG-2A

SJ Geophysics Ltd.

#5

003543

LEGEND

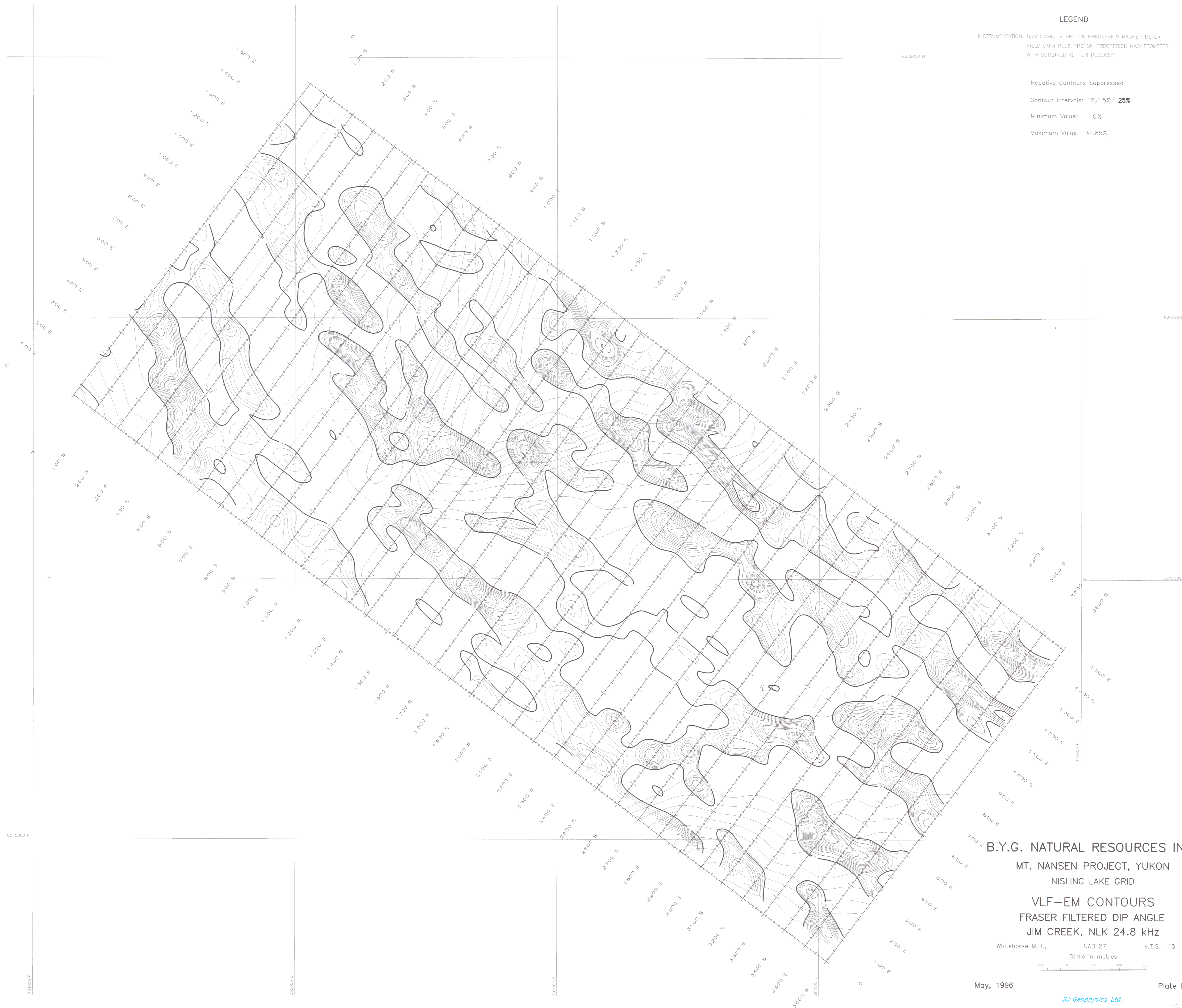
INSTRUMENTATION: BASE: OMNI IV PROTON PRECESSION MAGNETOMETER  
FIELD: OMNI PLUS PROTON PRECESSION MAGNETOMETER  
WITH COMBINED VLF-EM RECEIVER

Negative Contours Suppressed

Contour intervals: 1%/ 5%/ **25%**

Minimum Value: 0%

Maximum Value: 32.85%



099545  
153543

B.Y.G. NATURAL RESOURCES INC.

MT. NANSEN PROJECT, YUKON

NISLING LAKE GRID

VLF-EM CONTOURS

FRASER FILTERED DIP ANGLE

JIM CREEK, NLK 24.8 kHz

Whitehorse M.D., NAD 27 N.T.S. 115-1/3

Scale in metres



May, 1996

Plate NG-2B

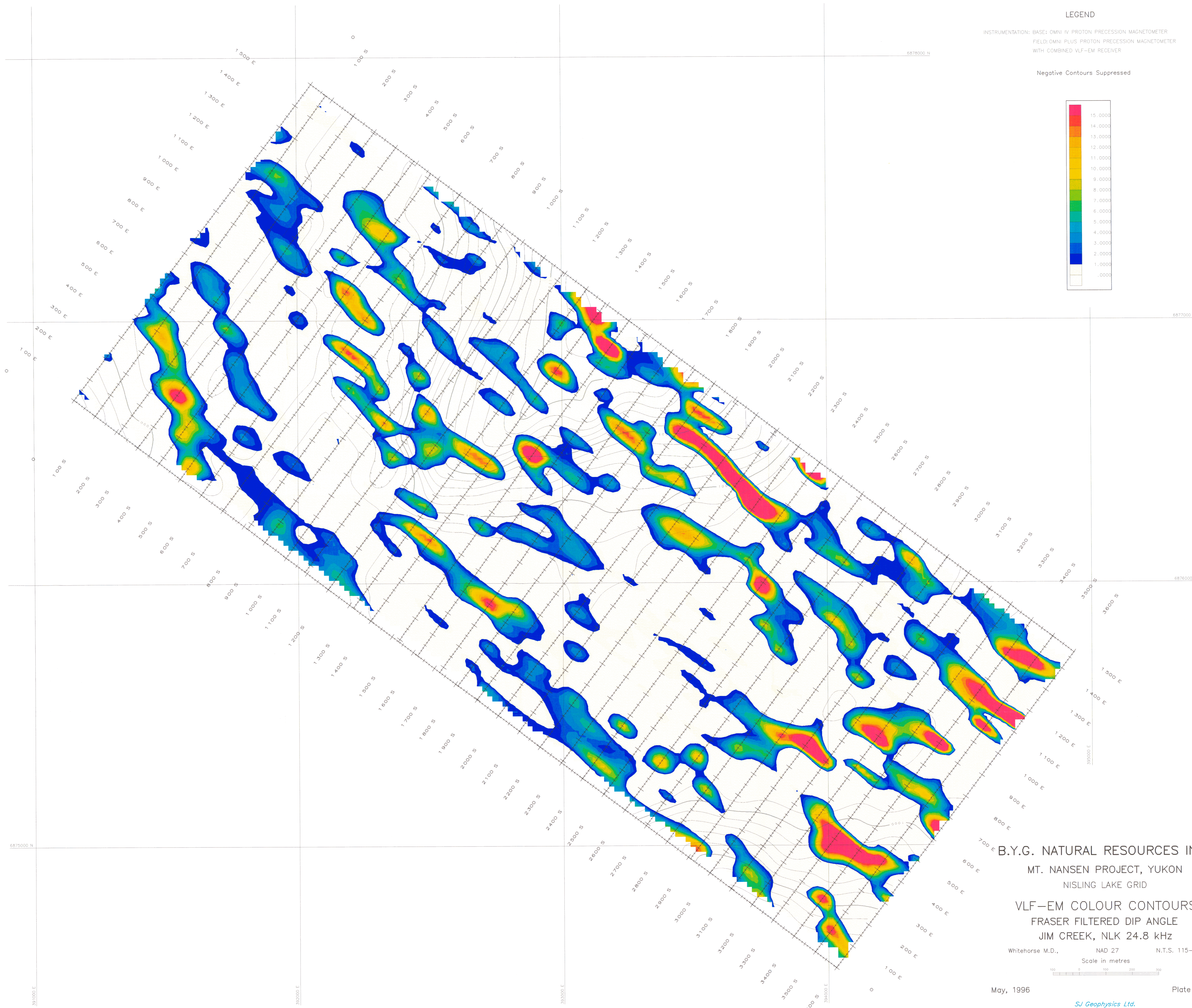
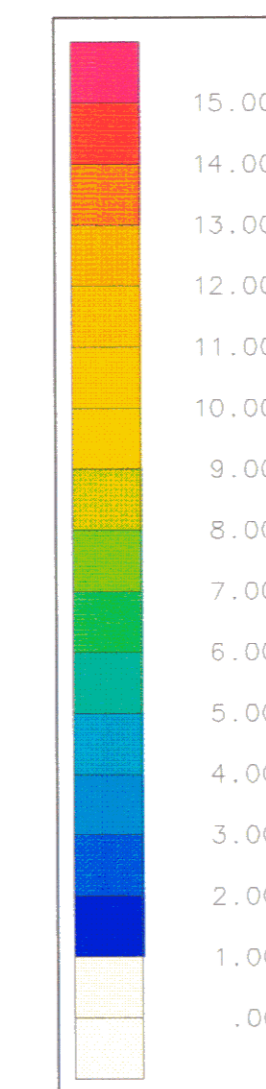
SJ Geophysics Ltd.

#6

LEGEND

INSTRUMENTATION: BASE: OMNI IV PROTON PRECESSION MAGNETOMETER  
FIELD: OMNI PLUS PROTON PRECESSION MAGNETOMETER  
WITH COMBINED VLF-EM RECEIVER

Negative Contours Suppressed



063543

B.Y.G. NATURAL RESOURCES INC.  
MT. NANSEN PROJECT, YUKON  
NISLING LAKE GRID

VLF-EM COLOUR CONTOURS  
FRASER FILTERED DIP ANGLE  
JIM CREEK, NLK 24.8 kHz

Whitehorse M.D., NAD 27 N.T.S. 115-1/3

Scale in metres



May, 1996

Plate NG-2C

S/ Geophysics Ltd.

#7

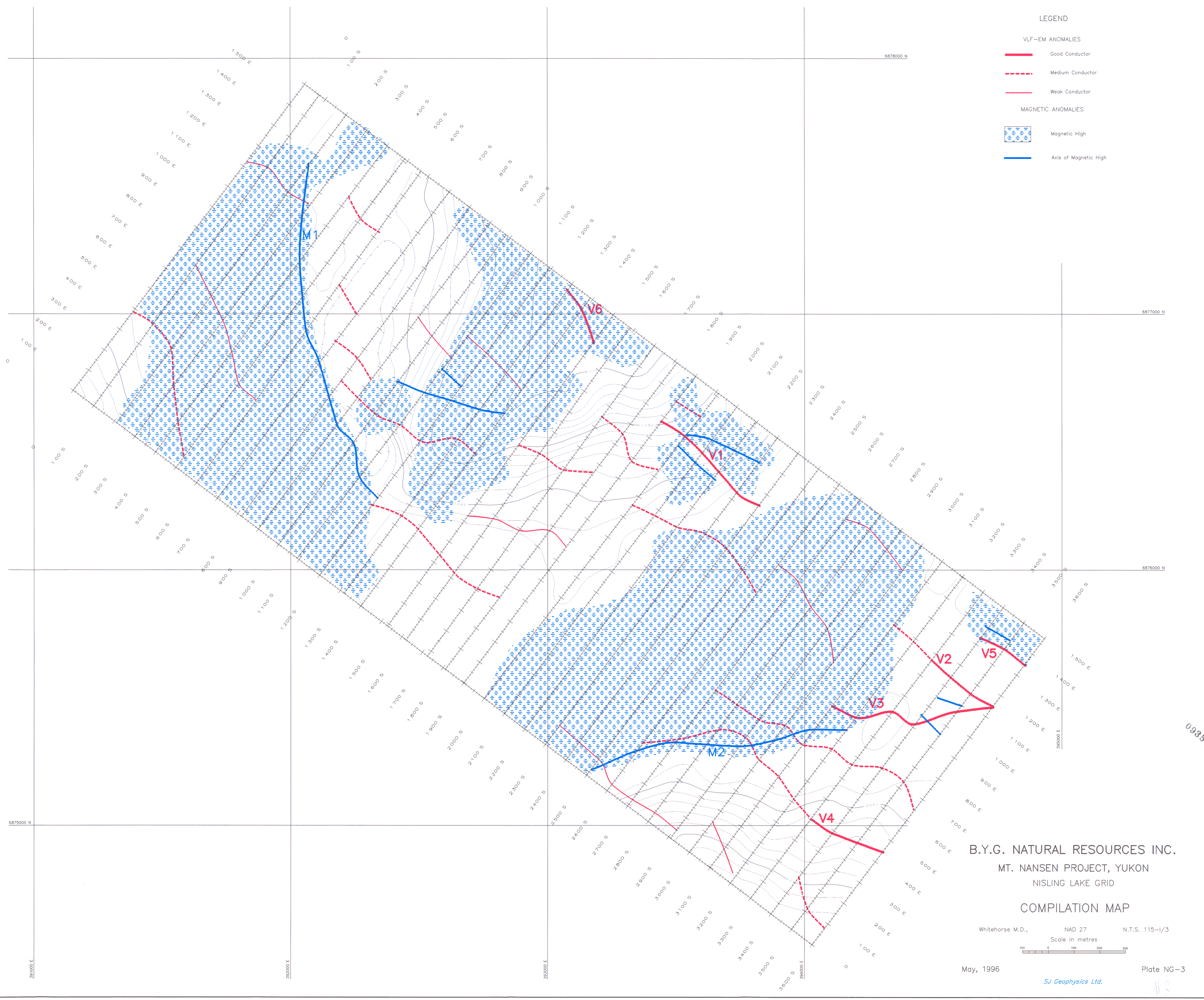
LEGEND

VLF-EM ANOMALIES

- Good Conductor
- Medium Conductor
- Weak Conductor

MAGNETIC ANOMALIES

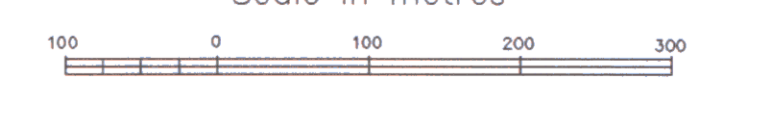
- Magnetic High
- Axis of Magnetic High



B.Y.G. NATURAL RESOURCES INC.  
MT. NANSEN PROJECT, YUKON  
NISLING LAKE GRID

COMPILATION MAP

Whitehorse M.D., NAD 27 N.T.S. 115-1/3  
Scale in metres



May, 1996

SJ Geophysics Ltd.

Plate NG-3

093513

113

**Addendum 3**

**1996 ASSESSMENT REPORT**

**MAGNETOMETER & VLF-EM  
SURVEY**

on the

**Jules 1-12, & Gerald 1-38**

**KLAZA 1 GRID**

Latitude 62°09' North  
Longitude 137°15' West

Whitehorse, Mining District,

N.T.S 115 I/3

for

**B.Y.G. NATURAL RESOURCES INC.**

110 Industrial Road  
Whitehorse, Yukon  
Y1A 2T1  
Canada

Survey by

**SJ GEOPHYSICS LTD.**

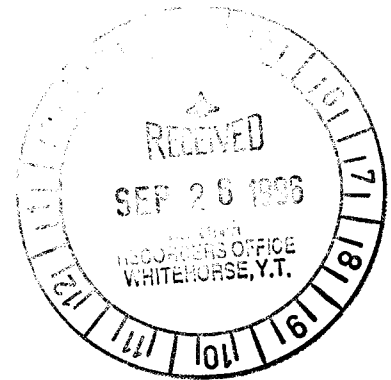
11762 - 94<sup>th</sup> Avenue  
Delta, British Columbia  
Canada V4C 3R7

Report by

Syd Visser, P. Geo

S.J.V. Consultants Ltd.

May 30, 1996 to June 29, 1996



093543

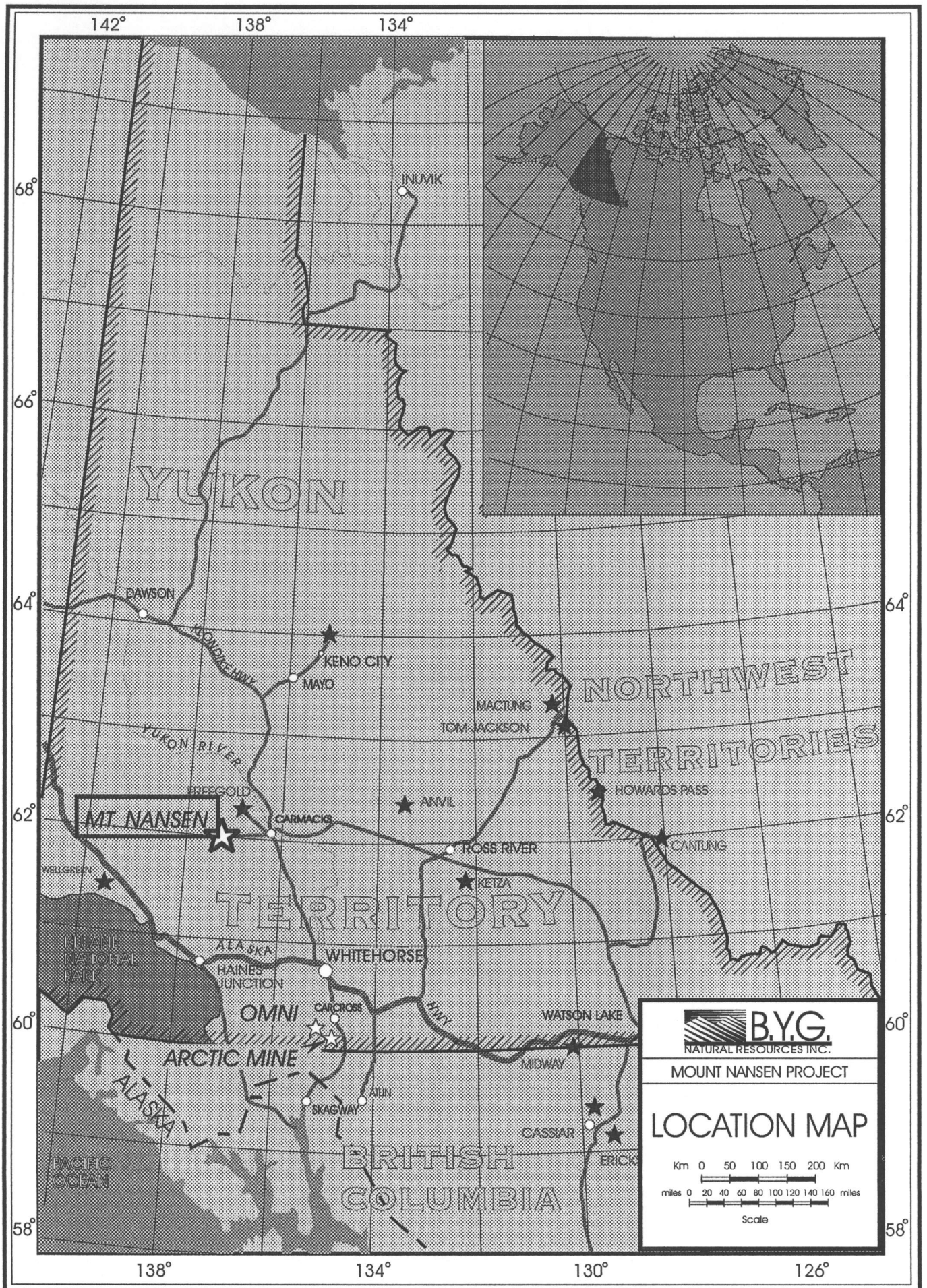


Figure 1: Location Map

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**CLAIMS..... 2**

**CLAIMS LOCATION AND ACCESS..... 2**

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**GEOLOGY AND MINERALIZATION ..... 3**

**FIELD WORK AND INSTRUMENTATION ..... 4**

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**MAGNETICS..... 5**

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***TABLE 1 list of plates* ..... 5**

**LIST OF CLAIMS AND TAG NUMBERS**

<b>CLAIM NAME</b>		<b>TAG NUMBER</b>	<b>CLAIM NAME</b>		<b>TAG NUMBER</b>
GERALD	1	YB57855	JULES	1	YB57893
GERALD	2	YB57856	JULES	2	YB57894
GERALD	3	YB57857	JULES	3	YB57895
GERALD	4	YB57858	JULES	4	YB57896
GERALD	5	YB57859	JULES	5	YB57897
GERALD	6	YB57860	JULES	6	YB57898
GERALD	7	YB57861	JULES	7	YB57899
GERALD	8	YB57862	JULES	8	YB57900
GERALD	9	YB57863	JULES	9	YB57901
GERALD	10	YB57864	JULES	10	YB57902
GERALD	11	YB57865	JULES	11	YB57903
GERALD	12	YB57866	JULES	12	YB57904
GERALD	13	YB57867			
GERALD	14	YB57868			
GERALD	15	YB57869			
GERALD	16	YB57870			
GERALD	17	YB57871			
GERALD	18	YB57872			
GERALD	19	YB57873			
GERALD	20	YB57874			
GERALD	21	YB57875			
GERALD	22	YB57876			
GERALD	23	YB57877			
GERALD	24	YB57878			
GERALD	25	YB57879			
GERALD	26	YB57880			
GERALD	27	YB57881			
GERALD	28	YB57882			
GERALD	29	YB57883			
GERALD	30	YB57884			
GERALD	31	YB57885			
GERALD	32	YB57886			
GERALD	33	YB57887			
GERALD	34	YB57888			
GERALD	35	YB57889			
GERALD	36	YB57890			
GERALD	37	YB57891			
GERALD	38	YB57892			

## **INTRODUCTION**

Magnetic and a very low frequency electromagnetic (VLF-EM) surveys were completed on the Mt. Nansen property, Klaza1 grid, for B.Y.G. Natural Resources Inc. by SJ Geophysics Ltd. from May 30 to June 29, 1996. The Mt. Nansen property is located about 60km west of Carmacks (Figure 1), Yukon in the Whitehorse Mining District, NTS 115 I/3.

The purpose of the survey was to aid in the mapping of local geology, search for mineralized or conductive structures and to follow up geochemical anomalies.

## **CLAIMS**

The Klaza 1 grid is located on the Jules and Gerald claims. These claims (Plate 1), are located in the Whitehorse Mining District and are held by B.Y.G. Natural Resources Inc. Co-ordinates of the claims are latitude 62°09' north and longitude 137°15' west. Claims data are summarised as follows:

## **CLAIMS LOCATION AND ACCESS**

The property can be reached by vehicle from Whitehorse by travelling north 180 km on Highway #2 to Carmacks, then 60 km west on a gravel access road to the mine. In general four-wheel drive vehicles are not required on a gravel access road but they are required to access the property during the winter period.

## **CLIMATE**

The area is quite dry with average precipitation of about 25 cm, most of which falls as rain in the summer months. Late winter snow-pack is normally 30 to 40 cm deep. Average monthly temperatures range from -15°C in January to 15°C in July.

In general outside activities such as construction can be conducted readily from April to early November.

## **HISTORY**

In 1943 prospectors Brown and McDade discovered lode deposit on Mount Nansen. Leitch Gold Mines forms Brown McDade Mines. Ltd.

In 1947 H. Heustis stacked gold-silver veins on Mt. Nansen. Mt. Nansen Mines Ltd. carried out surface exploration between 1962 and 1964, and in 1965, underground exploration began.

Between 1965 and 1967 two shafts were driven, one at the 1250 m level and one at the 1309 m level.

In 1968 and 1969 Heustis and Webber veins were mined at a rate of 65-90 tonnes per day. In 1969 without cyanide circuit, 40% of the gold reports to the tailings ponds and production ceased.

In 1976 mill re-opens again with excellent grades from Heustis and mine operated for 10 months.

In 1984 B.Y.G. acquired the Mt. Nansen property and optioned to Chevron who conducted extensive exploration and discover Brown-McDade oxide deposit.

In 1986 11 diamond drill holes totalling 576 m were completed. Seven holes encountered significant gold and silver values in the Flex vein zone.

In 1988 exploration consisted of road construction, bulldozer and excavator trenching, stripping, rehabilitation of underground workings and 5397 m of diamond drilling in 85 holes. Most of the drilling was done on the Brown-McDade zone.

In 1994 12 diamond drill holes totalling 1000 m were completed in the Flex, Heustis North and Brown-McDade sulphide zones.

## **GEOLOGY AND MINERALIZATION**

The Mt. Nansen is situated within the eastern part of the Yukon Crystalline Terrain, which lies between the Coast Plutonic Complex to the southwest and the Yukon Cataclastic Terrain to the northwest.

The southern portion of the property is underlain by deformed, medium to high grade metamorphic rocks. These include interlayered quartz-feldspar-chlorite gneiss, quartzite, amphibolite and augen gneiss. Foliation within these rocks strikes northeast and dips steeply to the northwest.

The northeastern portion of property is underlain by Early Cretaceous coarse-grained granodiorite with lesser quartz diorite and quartz monzonite. These rocks may contain up to 25% stubby amphibole and are locally foliated. Coeval pegmatite and aplite dykes are common locally.

Two types of faults occur on the property. The first set strikes north-northwest and dips between 50° and 70° to the southwest. These faults are parallel to the veins and locally mineralized. The second set of faults strikes northeast and dips subvertically. These faults vary in their sense and magnitudes of displacement. Locally, they cut the mineralized zones.

Gold and silver occur in a number of quartz-sulphide vein zones which cut Palaeozoic metamorphic rocks and Cretaceous quartz monzonite stocks, feldspar porphyry dykes and plugs, andesitic flows and pyroclastic rocks. The vein strikes northwest and dips from 80° NE to 45° SW. The veins comprise quartz lenses with arsenopyrite, pyrite, sphalerite, galena, tetrahedrite and stibnite. Depth of total oxidation ranges from 0 to 100 m depending on the type of mineralization and orientation of the vein.

## **FIELD WORK AND INSTRUMENTATION**

Magnetometer & VLF-EM surveys were completed May 30 to June 29, 1996. Data acquisition, processing and field presentation was performed by Zoran Dujakovic (Geophysicist). The Klaza 1 grid consisted of flagged, compass and hip-chain lines. Surveying was performed at 12.5 metre intervals along the 100 m spaced lines, for a total of approximately 77 kilometres.

An EDA OMNI PLUS combined proton precession magnetometer and VLF-EM system were used for data acquisition and an EDA OMNI IV proton precession magnetometer was used as a base station which recorded data in 30 seconds intervals. The VLF-EM survey used the signals from a Geonix NK27 portable transmitter transmitting at 18.6 kHz and Cutler (24.0 kHz, NAA). The Cutler transmitter is poorly orientated for east/west lines and was used primarily for conformation of anomalies detected with the portable transmitter. The signal/noise from Cutler transmitter was very bad and data from this station is not presented. The direction of VLF-EM surveying is positive to the east.

All data was downloaded to a computer in the evening. The data was processed as time permitted by the geophysicist. The data was plotted on an Bubble Jet printer.

The data was re-plotted on a 36 inch Ink Jet colour plotter in Vancouver for the final presentation and interpretation.

## DATA PRESENTATION

The magnetic, VLF-EM data, filtered VLF-EM data and compilation of the magnetic and VLF-EM data are presented on the on the following plates:

**TABLE 1 list of plates**

PLATE 2	GRID & CLAIMS LOCATION MAP	In Pocket
PLATE KG-1A	TOTAL FIELD MAGNETIC PROFILES	In Pocket
PLATE KG-1B	TOTAL FIELD MAGNETIC CONTOURS	In Pocket
PLATE KKG-1C	TOTAL FIELD MAGNETIC COLOUR CONTOURS	In Pocket
PLATE KG-2A	VLF-EM LOCAL TX. 18.6 kHz PROFILES	In Pocket
PLATE KG-2B	VLF-EM LOCAL TX. 18.6 kHz FRASER FILTER DIP ANGLE CONTOURS	In Pocket
PLATE KG-2C	VLF-EM LOCAL TX. 18.6 kHz FRASER FILTER DIP ANGLE COLOUR CONTOURS	In Pocket
PLATE KG-3	MAGNETIC AND VLF-EM COMPILATION MAP	In Pocket

Contour maps are presented as black and white line contours for the assessment reports and as solid colour for the client.

## INTERPRETATION

The interpretation is presented on the compilation map, Plate KG3. Discussions regarding directions on the grid will be in terms of grid east, north, south, and west.

## MAGNETICS

The magnetic relief over the surveyed area is approximately 1000 nT. The magnetic highs appear to be mainly related to changes in lithology whereas the magnetic lows can be related to structures.

The highest susceptibilities are noted in the north-western part of the survey grid and are bounded on the southern (~ 4000N) and western (~6700W) edges by anomalous magnetic lows. Inside this magnetic high zone are a number of magnetic low lineations as shown on the compilation map. It is interesting to note that two of the lineations which

coincide with VLF-EM anomalies, strike north east which is at approximately 30 -45 deg. to the main strike of the majority of the structures.

It is not clear if the magnetic lows which bound the above high susceptibility region are changes in rock types or major structures. They appear to separate major changes in geology and are likely wide structures.

The south-western part of the grid has a very uniform susceptibility, whereas the eastern part of the grid has a higher and more variable magnetic response. The eastern part of the survey area is cut by a number of magnetic lineations as shown on the compilation map. The majority of these magnetic lineation strikes approximately north-west, parallel to the base lines.

The major structure appears to be a lineation starting from the baseline at 4200W curving west and north up to 5100W - 3800N and then continuing west to line 6700W. The susceptibility of the rocks to the south of this structure between lines 4300W and 5700W are very similar to the rocks in the north-western area and the geology may be similar in these areas.

### **VLF-EM**

The VLF-EM survey has delineated numerous north-west trending anomalies shown on the compilation map as good, medium and weak conductors. The VLF-EM anomalies were determined only from data collected from the portable transmitter since the signal strength from Cutler was weak and very noisy.

Some of the strongest VLF-EM anomalies are located in the north-western part of the survey grid and are coincidental with the magnetic lineations as mentioned in the above magnetic interpretation.

The two parallel weak anomalies to the south of this area and associated with one of the major magnetic lineations, appear to be edges of a conductive zone and are possibly wide weakly conductive shears.

The well defined VLF-EM anomaly located between 4200N and 4300N on lines 6200W to 6700W appears to be associated with a magnetic contact and therefore could be a edge affect or possibly associated with a magnetic lineation that is not distinguishable due to the magnetic contact.

A VLF-EM anomaly striking from the eastern part of the grid at approximately 4300N to 5500W also appears to be associated with a magnetic contact and a possible lineation.

The major magnetic lineation to the south of this anomaly, striking across the grid from 4200W to 6700W, does not appear to be associated with any major VLF-EM anomaly but does correlate to a number of weaker anomalies confirming this as a major structure.

The remaining strong VLF-EM anomalies appear to be two short strike length anomalies located in the south-eastern part of the grid. One strikes from between 3050N and 3100N on lines 4200W to 4500W and the second anomaly strikes from line 3600W to 4000W between 3150N and 3300N. The second one of these anomalies definitely appears to be associated with a magnetic lineation.

The remainder of VLF-EM anomalies, shown as medium and weak conductors, are not discussed, but presented on the compilation map. These anomalies may represent resistive contacts or weakly conductive faults.

## **RECOMMENDATIONS**

The geophysical data should be compiled with geological mapping and geochemical sampling to determine if more detail work or other geophysical techniques are required to enhance the geological mapping. If the results of the mag/VLF survey correlate well with the geology, further interpretation of the geophysics with the geology is recommended.

The good VLF-EM anomalies mentioned in the above interpretation and shown on the compilation map KG3, especially those correlating with a magnetic lineation, should be prospected carefully and possibly checked with trenching and or geochemical sampling.

All good VLF-EM anomalies should be checked by other geophysical techniques such as Horizontal Loop EM (HLEM) before the diamond drilling program started.

## **CONCLUSION**

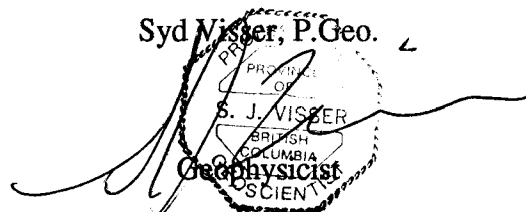
The susceptibility highs appear to indicate different lithologies whereas the lows appear to show magnetic lineations related to geological structures or contacts. The northwestern part of the survey area is a magnetic high area bounded by two major magnetic low lineations. Two north-east and one north-west lineations within this

magnetic high region are associated with strong VLF-EM anomalies and should be investigated further.

The south-western part of the survey area is in a relatively low and homogeneous susceptibility region suggesting a different lithology.

Numerous magnetic lineations and VLF-EM anomalies strike across the eastern part of the survey grid with the largest concentration in the southern part of the survey area.

All of these magnetic lineations and VLF-EM anomalies should be correlated closely to any local geology, carefully prospected, soil sampled and possibly trenched to determine their potential for mineralization.

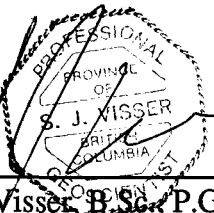


SJ Geophysics Ltd. / S.J.V. Consultants Ltd.

**STATEMENT OF QUALIFICATIONS**

I, Syd J. Visser, of 11762 - 94<sup>th</sup> Avenue, Delta, British Columbia, hereby certifies that:

- 1) I am a graduate of the University of British Columbia, 1981, where I obtained a B.Sc. (Hon.) Degree in Geology and Geophysics.
- 2) I am a graduate of Haileybury School of Mines, 1971.
- 3) I have been engaged in mining exploration since 1968.
- 4) I am a professional Geoscientist registered in British Columbia.

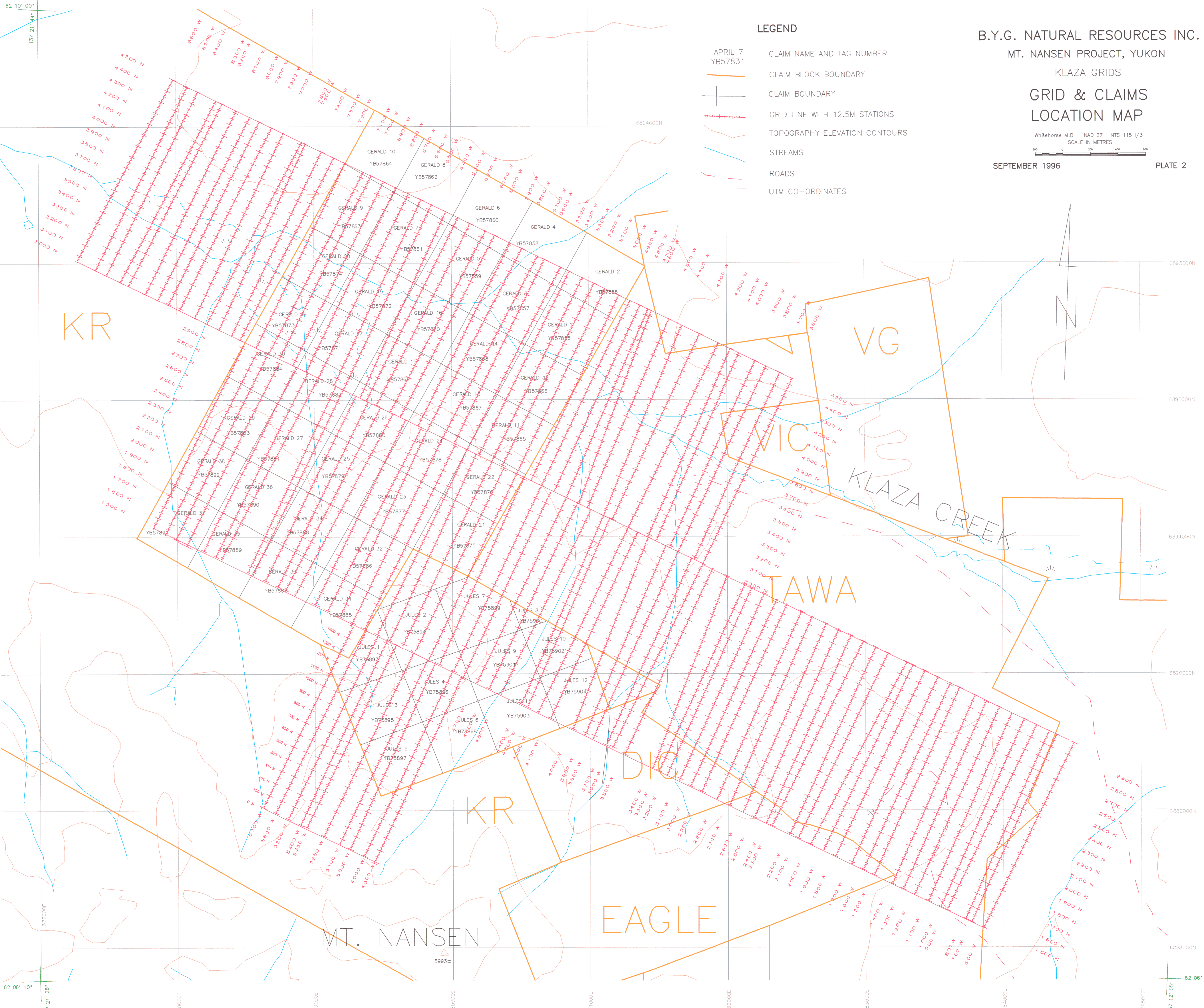


Syd J. Visser, B.Sc., P.Ge.  
Geophysicist/Geologist

The seal is circular with a scalloped border. The text inside the seal reads: 'PROFESSIONAL', 'PROVINCIAL', 'OF', 'S. J. VISSER', 'BRITISH', 'COLUMBIA', 'GEOSCIENTIST'. There is a handwritten checkmark to the right of the seal.

## **REFERENCES**

- Melling, D.R., 1995**      Summary Report: 1995 Exploration Program
- Sinclair, W.D., Maloney, J.M. and Craig, D.B., 1974** Mineral Industry Report  
1974 Yukon Territory, p. 126-127.
- Indian and Northern Affairs Canada** Yukon Mining and Exploration Overview  
1988 p. 35-36.
- Indian and Northern Affairs Canada** Yukon Exploration 1985-1986 p. 337.
- Indian and Northern Affairs Canada** Yukon Exploration & Geology 1994 p. 5.



LEGEND

- APRIL 7  
YB57831
- CLAIM NAME AND TAG NUMBER
- CLAIM BLOCK BOUNDARY
- CLAIM BOUNDARY
- GRID LINE WITH 12.5M STATIONS
- TOPOGRAPHY ELEVATION CONTOURS
- STREAMS
- ROADS
- UTM CO-ORDINATES

B.Y.G. NATURAL RESOURCES INC.  
 MT. NANSEN PROJECT, YUKON

KLAZA GRIDS  
**GRID & CLAIMS  
 LOCATION MAP**

Whitehorse M.D NAD 27 NTS 115 1/3  
 SCALE IN METRES

SEPTEMBER 1996

PLATE 2



62 10' 00"

137 21' 44"

KR

VG

WIC

KLAZA CREEK

TAWA

DIO

KR

EAGLE

MT. NANSEN

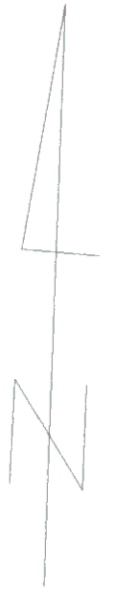
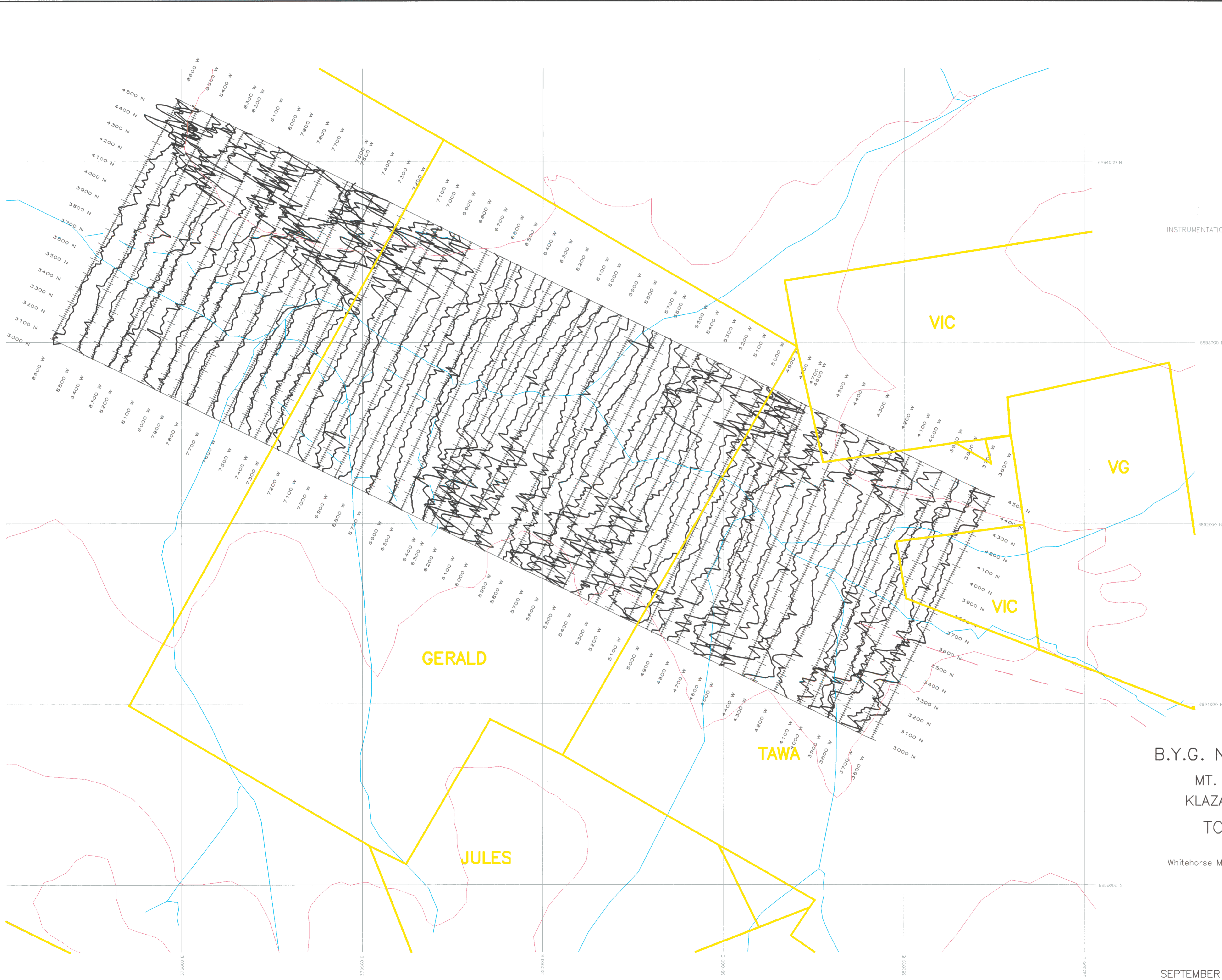
59931

62 06' 10"

137 21' 26"

62 06' 19"

137 12' 05"

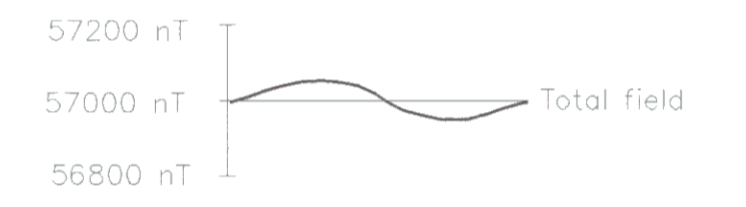


**LEGEND**

INSTRUMENTATION: BASE: OMNI IV PROTON PRECESSION MAGNETOMETER  
 FIELD: OMNI PLUS PROTON PRECESSION MAGNETOMETER  
 WITH COMBINED VLF-EM RECEIVER

Minimum Value: 56655 nT  
 Maximum Value: 57655 nT

**PROFILES**



093543

**B.Y.G. NATURAL RESOURCES INC.**  
 MT. NANSEN PROJECT, YUKON  
 KLAZA GRID#1 – GERALD CLAIMS  
 TOTAL FIELD MAGNETIC  
 PROFILES

Whitehorse M.D., NAD 27 N.T.S. 115-1/3

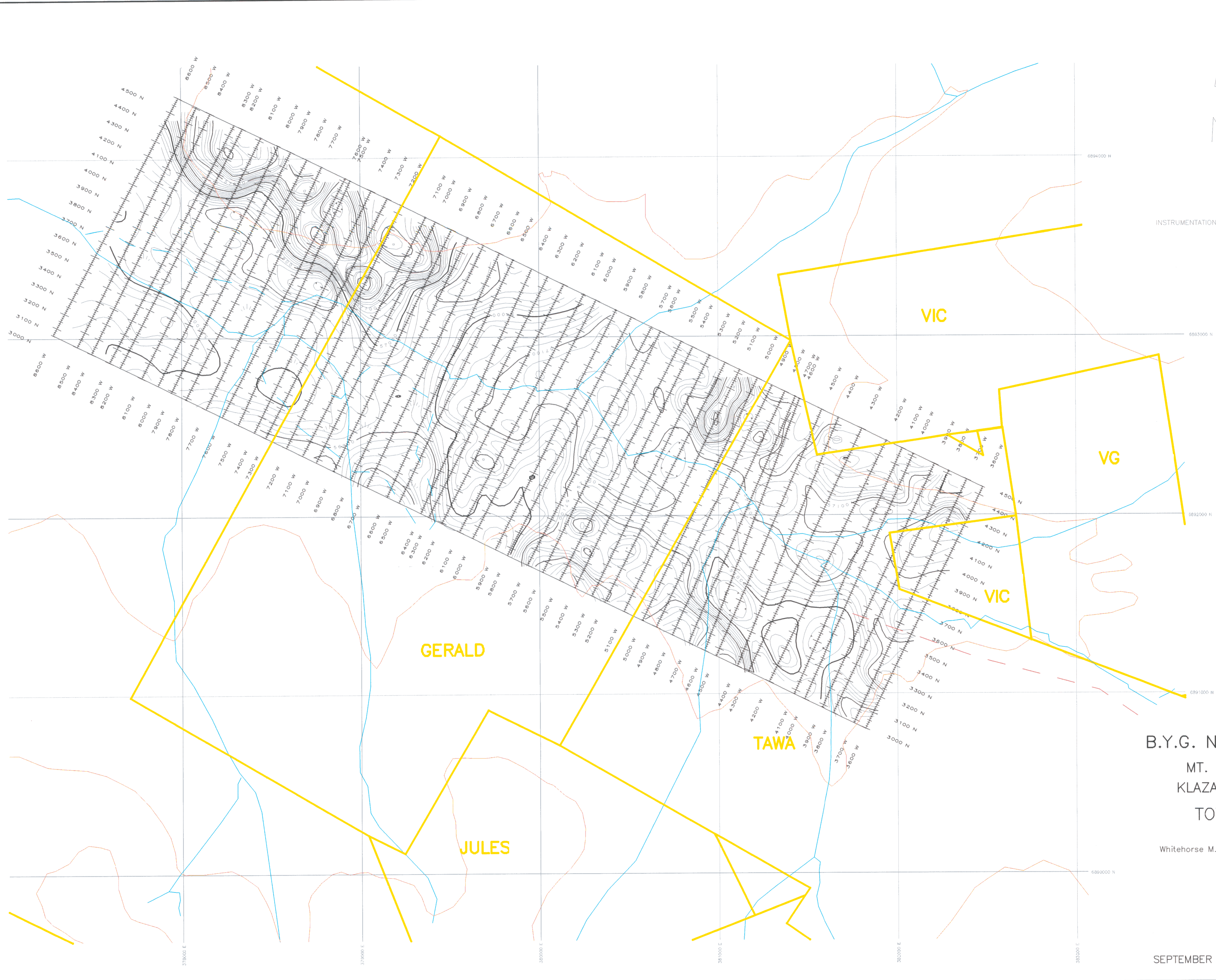


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SEPTEMBER 1996

PLATE KG-1A

#10



**LEGEND**

INSTRUMENTATION: BASE: OMNI IV PROTON PRECESSION MAGNETOMETER  
 FIELD: OMNI PLUS PROTON PRECESSION MAGNETOMETER  
 WITH COMBINED VLF-EM RECEIVER

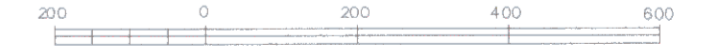
Contour intervals: 20nT/100nT/500nT  
 Minimum Value: 56655 nT  
 Maximum Value: 57655 nT

093543

**B.Y.G. NATURAL RESOURCES INC.**  
 MT. NANSEN PROJECT, YUKON  
 KLAZA GRID#1 – GERALD CLAIMS  
 TOTAL FIELD MAGNETIC  
 CONTOURS

Whitehorse M.D., NAD 27 N.T.S. 115-1/3

Scale in metres

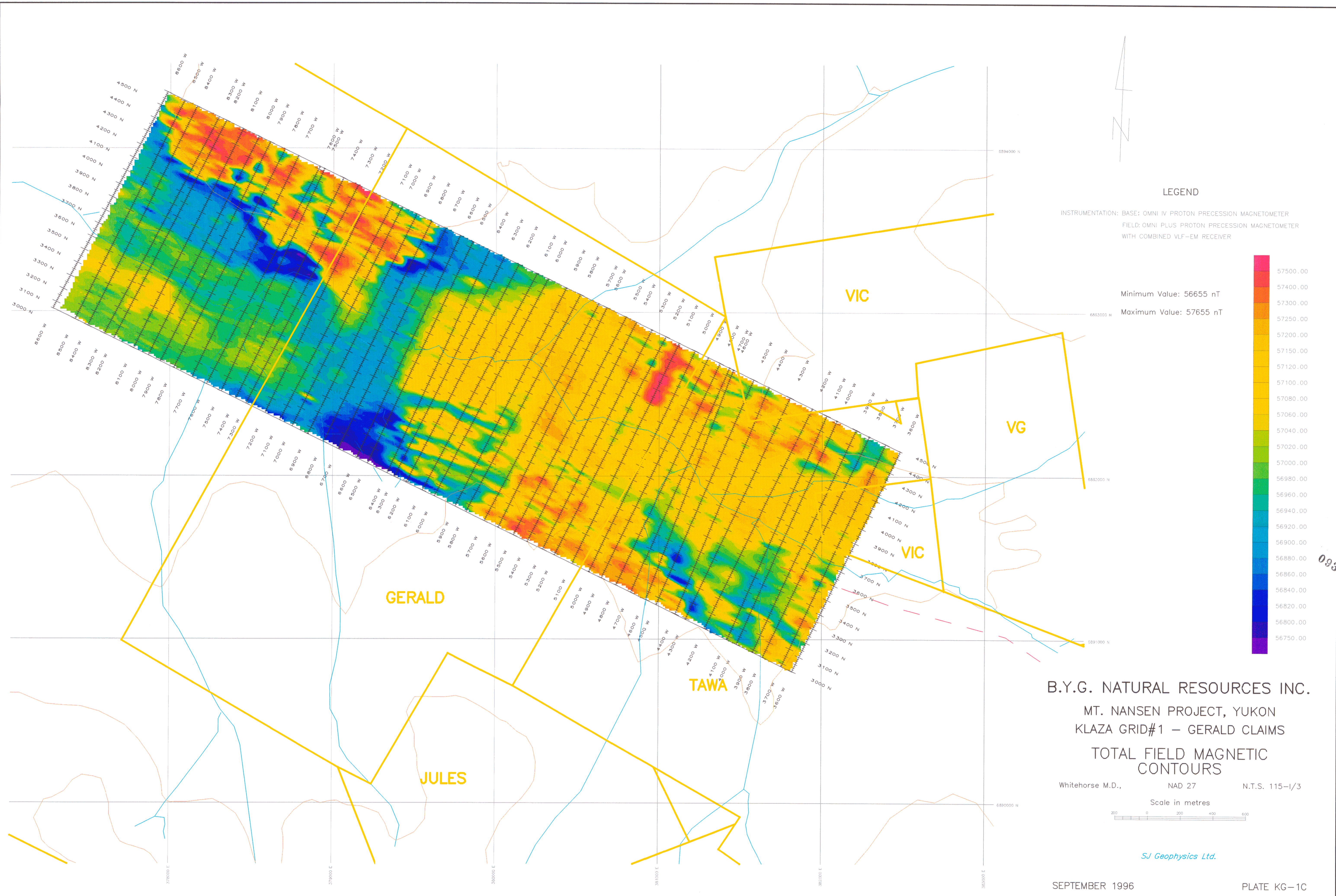


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PLATE KG-1B

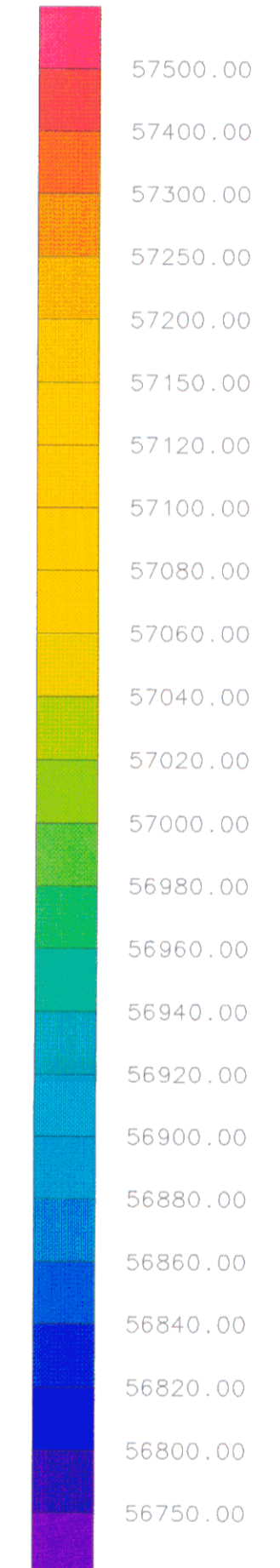
#11



**LEGEND**

INSTRUMENTATION: BASE: OMNI IV PROTON PRECESSION MAGNETOMETER  
 FIELD: OMNI PLUS PROTON PRECESSION MAGNETOMETER  
 WITH COMBINED VLF-EM RECEIVER

Minimum Value: 56655 nT  
 Maximum Value: 57655 nT



**B.Y.G. NATURAL RESOURCES INC.**  
 MT. NANSEN PROJECT, YUKON  
 KLAZA GRID#1 – GERALD CLAIMS  
 TOTAL FIELD MAGNETIC  
 CONTOURS

Whitehorse M.D., NAD 27 N.T.S. 115-1/3

Scale in metres

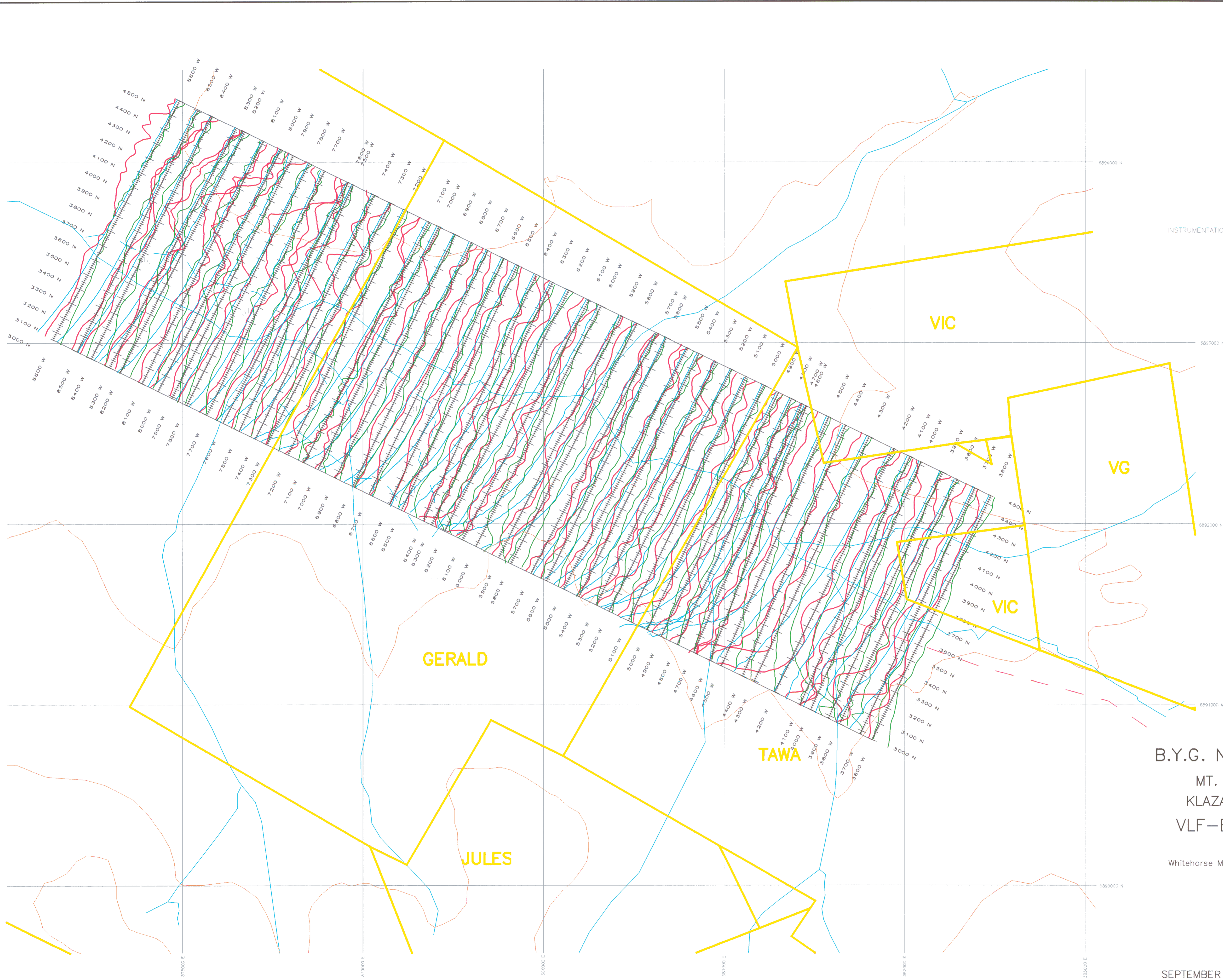


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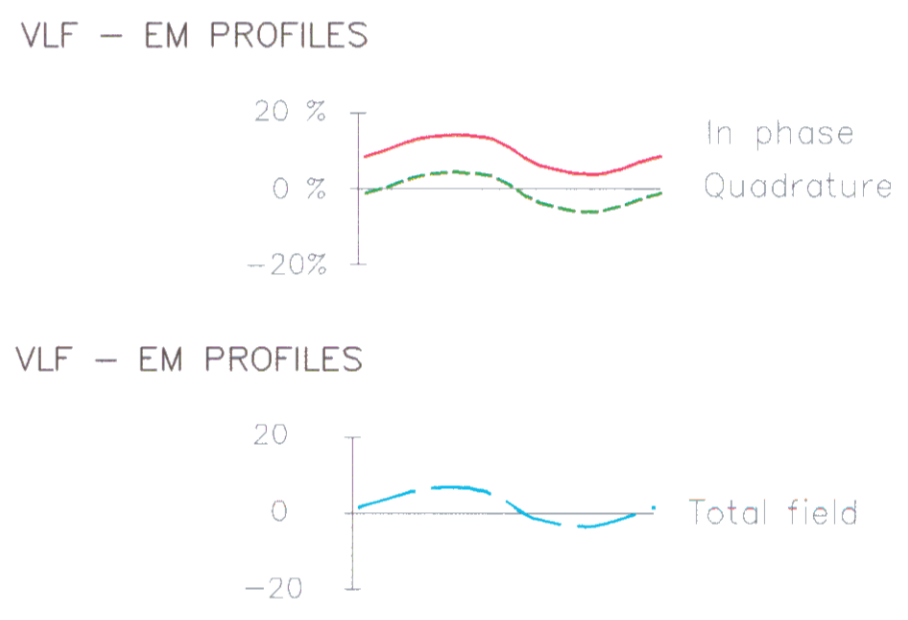
PLATE KG-1C

093543



**LEGEND**

INSTRUMENTATION: BASE: OMNI IV PROTON PRECESSION MAGNETOMETER  
 FIELD: OMNI PLUS PROTON PRECESSION MAGNETOMETER  
 WITH COMBINED VLF-EM RECEIVER  
 TRANSMITTER: GEONICS TX 27 PORTABLE TRANSMITTER  
 FREQUENCY: 18.6 kHz



093548

**B.Y.G. NATURAL RESOURCES INC.**  
 MT. NANSEN PROJECT, YUKON  
 KLAZA GRID#1 – GERALD CLAIMS  
 VLF-EM LOCAL TX. 18.6 kHz  
 PROFILES

Whitehorse M.D., NAD 27 N.T.S. 115-1/3

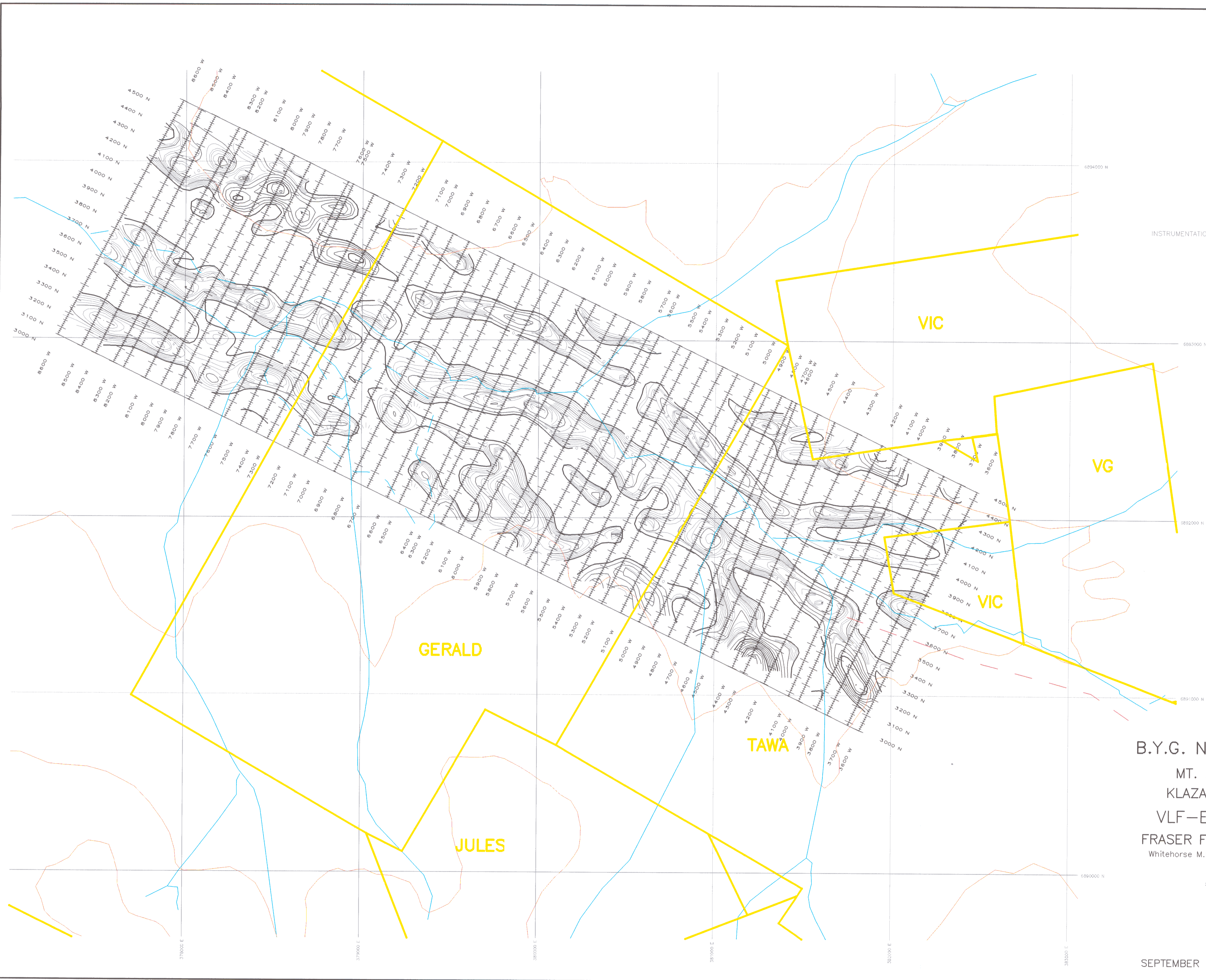


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SEPTEMBER 1996

PLATE KG-2A

#13

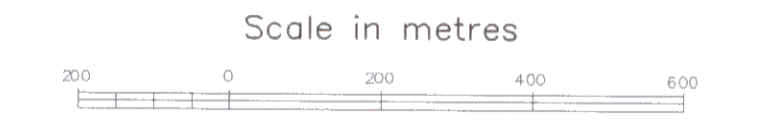


**LEGEND**

INSTRUMENTATION: BASE: OMNI IV PROTON PRECESSION MAGNETOMETER  
 FIELD: OMNI PLUS PROTON PRECESSION MAGNETOMETER  
 WITH COMBINED VLF-EM RECEIVER  
 TRANSMITTER: GEONICS TX 27 PORTABLE TRANSMITTER  
 FREQUENCY: 18.6 kHz

Negative Contours Suppressed  
 Contour intervals: 1% / 5% / 25%  
 Minimum Value: 0%  
 Maximum Value: 101.95%

**B.Y.G. NATURAL RESOURCES INC.**  
 MT. NANSEN PROJECT, YUKON  
 KLAZA GRID#1 – GERALD CLAIMS  
 VLF-EM LOCAL TX. 18.6 kHz  
 FRASER FILTERED DIP ANGLE CONTOURS  
 Whitehorse M.D., NAD 27 N.T.S. 115-1/3

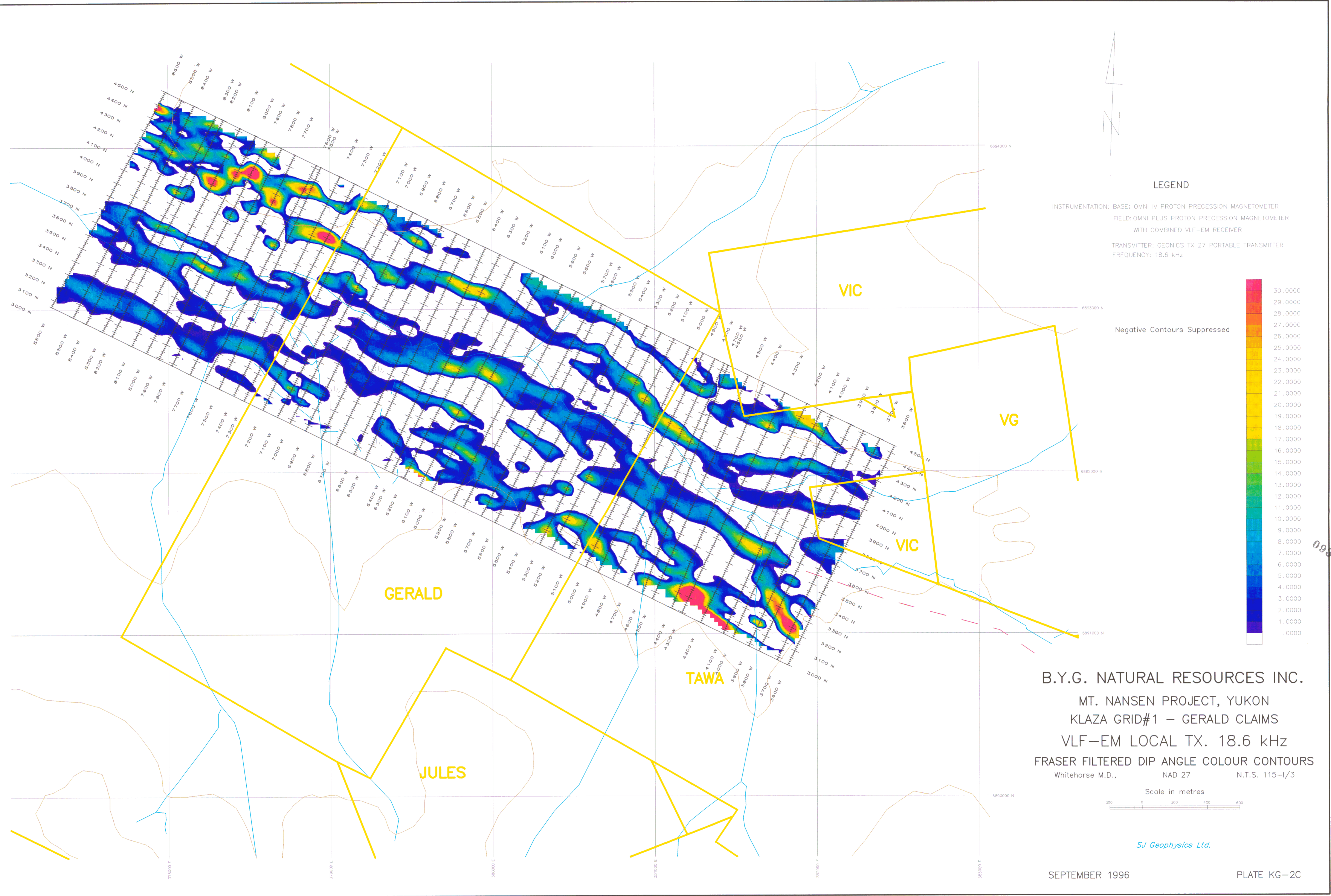


*SJ Geophysics Ltd.*

SEPTEMBER 1996

PLATE KG-2B

114



**LEGEND**

INSTRUMENTATION: BASE: OMNI IV PROTON PRECESSION MAGNETOMETER  
 FIELD: OMNI PLUS PROTON PRECESSION MAGNETOMETER  
 WITH COMBINED VLF-EM RECEIVER  
 TRANSMITTER: GEONICS TX 27 PORTABLE TRANSMITTER  
 FREQUENCY: 18.6 kHz



Negative Contours Suppressed

**B.Y.G. NATURAL RESOURCES INC.**  
 MT. NANSEN PROJECT, YUKON  
 KLAZA GRID#1 – GERALD CLAIMS  
 VLF-EM LOCAL TX. 18.6 kHz  
 FRASER FILTERED DIP ANGLE COLOUR CONTOURS  
 Whitehorse M.D., NAD 27 N.T.S. 115-1/3



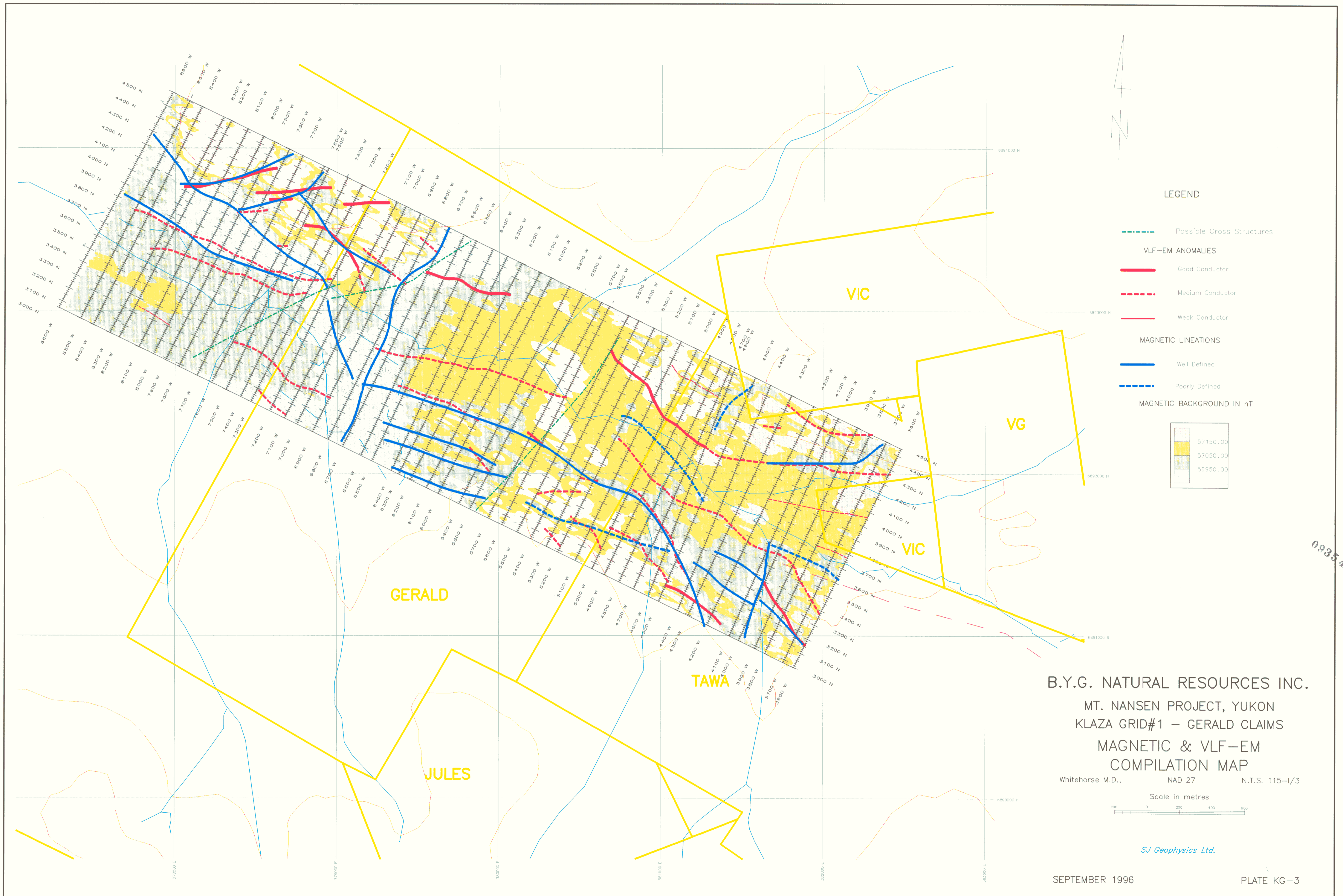
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SEPTEMBER 1996

PLATE KG-2C

093543

#15



**LEGEND**

- - - Possible Cross Structures
- VLF-EM ANOMALIES**
- Good Conductor
- - - Medium Conductor
- · · Weak Conductor
- MAGNETIC LINEATIONS**
- Well Defined
- - - Poorly Defined
- MAGNETIC BACKGROUND IN nT**

	57150.00
	57050.00
	56950.00

B.Y.G. NATURAL RESOURCES INC.  
 MT. NANSEN PROJECT, YUKON  
 KLAZA GRID#1 - GERALD CLAIMS  
 MAGNETIC & VLF-EM  
 COMPILATION MAP  
 Whitehorse M.D., NAD 27 N.T.S. 115-1/3  
 Scale in metres  
 SJ Geophysics Ltd.

093543

#16